

ATOM 351 C GLU A 28145.583 -9.441 -8.380 1.00 0.00 C  
 ATOM 352 O GLU A 28144.657 -10.023 -7.815 1.00 0.00 O  
 ATOM 353 CB GLU A 28146.863 -7.404 -7.683 1.00 0.00 C  
 ATOM 354 CG GLU A 28147.851 -6.662 -8.569 1.00 0.00 C  
 ATOM 355 CD GLU A 28148.826 -7.593 -9.262 1.00 0.00 C  
 ATOM 356 OE1 GLU A 28148.786 -7.674 -10.508 1.00 0.00 O  
 ATOM 357 OE2 GLU A 28149.630 -8.240 -8.559 1.00 0.00 O  
 ATOM 358 H GLU A 28143.742 -7.931 -7.481 1.00 0.00 H  
 ATOM 359 HA GLU A 28145.696 -7.608 -9.466 1.00 0.00 H  
 ATOM 360 1HB GLU A 28146.540 -6.732 -6.902 1.00 0.00 H  
 ATOM 361 2HB GLU A 28147.376 -8.243 -7.235 1.00 0.00 H  
 ATOM 362 1HG GLU A 28147.300 -6.117 -9.322 1.00 0.00 H  
 ATOM 363 2HG GLU A 28148.410 -5.967 -7.960 1.00 0.00 H  
 ATOM 364 N ASN A 29146.587 -10.081 -8.971 1.00 0.00 N  
 ATOM 365 CA ASN A 29146.659 -11.537 -8.989 1.00 0.00 C  
 ATOM 366 C ASN A 29146.727 -12.096 -7.570 1.00 0.00 C  
 ATOM 367 O ASN A 29145.863 -12.868 -7.156 1.00 0.00 O  
 ATOM 368 CB ASN A 29147.876 -11.998 -9.793 1.00 0.00 C  
 ATOM 369 CG ASN A 29147.525 -12.348 -11.225 1.00 0.00 C  
 ATOM 370 OD1 ASN A 29147.666 -13.495 -11.649 1.00 0.00 O  
 ATOM 371 ND2 ASN A 29147.064 -11.357 -11.981 1.00 0.00 N  
 ATOM 372 H ASN A 29147.296 -9.562 -9.404 1.00 0.00 H  
 ATOM 373 HA ASN A 29145.763 -11.907 -9.466 1.00 0.00 H  
 ATOM 374 1HB ASN A 29148.612 -11.208 -9.806 1.00 0.00 H  
 ATOM 375 2HB ASN A 29148.302 -12.872 -9.322 1.00 0.00 H  
 ATOM 376 1HD2 ASN A 29146.977 -10.468 -11.575 1.00 0.00 H  
 ATOM 377 2HD2 ASN A 29146.828 -11.555 -12.911 1.00 0.00 H  
 ATOM 378 N PRO A 30147.761 -11.710 -6.802 1.00 0.00 N  
 ATOM 379 CA PRO A 30147.939 -12.176 -5.424 1.00 0.00 C  
 ATOM 380 C PRO A 30146.990 -11.480 -4.450 1.00 0.00 C  
 ATOM 381 O PRO A 30147.142 -10.292 -4.169 1.00 0.00 O

ATOM	382	CB	PRO A	30149.388	-11.800	-5.116	1.00	0.00	C
ATOM	383	CG	PRO A	30149.653	-10.605	-5.964	1.00	0.00	C
ATOM	384	CD	PRO A	30148.839	-10.791	-7.218	1.00	0.00	C
ATOM	385	HA	PRO A	30147.817	-13.246	-5.348	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.487	-11.571	-4.065	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.040	-12.621	-5.377	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.341	-9.711	-5.445	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.704	-10.553	-6.205	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.432	-9.846	-7.546	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.442	-11.233	-7.996	1.00	0.00	H
ATOM	392	N	PRO A	31145.992	-12.211	-3.919	1.00	0.00	N
ATOM	393	CA	PRO A	31145.023	-11.647	-2.973	1.00	0.00	C
ATOM	394	C	PRO A	31145.649	-11.337	-1.618	1.00	0.00	C
ATOM	395	O	PRO A	31145.627	-12.165	-0.709	1.00	0.00	O
ATOM	396	CB	PRO A	31143.974	-12.754	-2.837	1.00	0.00	C
ATOM	397	CG	PRO A	31144.706	-14.009	-3.159	1.00	0.00	C
ATOM	398	CD	PRO A	31145.730	-13.636	-4.195	1.00	0.00	C
ATOM	399	HA	PRO A	31144.560	-10.755	-3.367	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.591	-12.767	-1.827	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.168	-12.578	-3.532	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.191	-14.391	-2.272	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.021	-14.742	-3.558	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.628	-14.224	-4.067	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.329	-13.769	-5.188	1.00	0.00	H
ATOM	406	N	PHE A	32146.208	-10.138	-1.491	1.00	0.00	N
ATOM	407	CA	PHE A	32146.842	-9.717	-0.247	1.00	0.00	C
ATOM	408	C	PHE A	32145.955	-8.733	0.510	1.00	0.00	C
ATOM	409	O	PHE A	32145.061	-8.116	-0.069	1.00	0.00	O
ATOM	410	CB	PHE A	32148.202	-9.079	-0.534	1.00	0.00	C
ATOM	411	CG	PHE A	32148.167	-8.063	-1.638	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.842	-8.289	-2.827	1.00	0.00	C

ATOM	413	CD2 PHE A	32147.460	-6.881	-1.488	1.00	0.00	C
ATOM	414	CE1 PHE A	32148.812	-7.355	-3.845	1.00	0.00	C
ATOM	415	CE2 PHE A	32147.426	-5.943	-2.503	1.00	0.00	C
ATOM	416	CZ PHE A	32148.103	-6.181	-3.684	1.00	0.00	C
ATOM	417	H PHE A	32146.194	-9.521	-2.253	1.00	0.00	H
ATOM	418	HA PHE A	32146.987	-10.596	0.363	1.00	0.00	H
ATOM	419	1HB PHE A	32148.556	-8.587	0.360	1.00	0.00	H
ATOM	420	2HB PHE A	32148.902	-9.853	-0.814	1.00	0.00	H
ATOM	421	HD1 PHE A	32149.397	-9.207	-2.955	1.00	0.00	H
ATOM	422	HD2 PHE A	32146.930	-6.694	-0.565	1.00	0.00	H
ATOM	423	HE1 PHE A	32149.342	-7.544	-4.767	1.00	0.00	H
ATOM	424	HE2 PHE A	32146.871	-5.026	-2.373	1.00	0.00	H
ATOM	425	HZ PHE A	32148.078	-5.450	-4.478	1.00	0.00	H
ATOM	426	N TYR A	33146.208	-8.594	1.807	1.00	0.00	N
ATOM	427	CA TYR A	33145.433	-7.685	2.643	1.00	0.00	C
ATOM	428	C TYR A	33146.350	-6.765	3.443	1.00	0.00	C
ATOM	429	O TYR A	33147.263	-7.226	4.129	1.00	0.00	O
ATOM	430	CB TYR A	33144.532	-8.475	3.592	1.00	0.00	C
ATOM	431	CG TYR A	33143.295	-9.036	2.928	1.00	0.00	C
ATOM	432	CD1 TYR A	33143.012	-10.395	2.976	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.410	-8.205	2.252	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.882	-10.910	2.369	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.277	-8.713	1.643	1.00	0.00	C
ATOM	436	CZ TYR A	33141.019	-10.065	1.705	1.00	0.00	C
ATOM	437	OH TYR A	33139.893	-10.575	1.099	1.00	0.00	O
ATOM	438	H TYR A	33146.935	-9.114	2.211	1.00	0.00	H
ATOM	439	HA TYR A	33144.817	-7.082	1.994	1.00	0.00	H
ATOM	440	1HB TYR A	33145.091	-9.303	4.003	1.00	0.00	H
ATOM	441	2HB TYR A	33144.214	-7.829	4.398	1.00	0.00	H
ATOM	442	HD1 TYR A	33143.690	-11.054	3.497	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.616	-7.145	2.205	1.00	0.00	H

ATOM	444	HE1	TYR A	33141.680	-11.970	2.418	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.602	-8.050	1.122	1.00	0.00	H
ATOM	446	HH	TYR A	33139.970	-10.479	0.147	1.00	0.00	H
ATOM	447	N	GLY A	34146.102	-5.463	3.349	1.00	0.00	N
ATOM	448	CA	GLY A	34146.914	-4.500	4.069	1.00	0.00	C
ATOM	449	C	GLY A	34146.132	-3.264	4.467	1.00	0.00	C
ATOM	450	O	GLY A	34145.114	-2.941	3.854	1.00	0.00	O
ATOM	451	H	GLY A	34145.362	-5.154	2.786	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.303	-4.969	4.961	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.741	-4.202	3.441	1.00	0.00	H
ATOM	454	N	VAL A	35146.607	-2.570	5.496	1.00	0.00	N
ATOM	455	CA	VAL A	35145.946	-1.363	5.975	1.00	0.00	C
ATOM	456	C	VAL A	35146.638	-0.111	5.444	1.00	0.00	C
ATOM	457	O	VAL A	35147.863	-0.067	5.335	1.00	0.00	O
ATOM	458	CB	VAL A	35145.919	-1.312	7.516	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.332	-1.295	8.078	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.129	-0.104	8.000	1.00	0.00	C
ATOM	461	H	VAL A	35147.423	-2.879	5.943	1.00	0.00	H
ATOM	462	HA	VAL A	35144.927	-1.377	5.618	1.00	0.00	H
ATOM	463	HB	VAL A	35145.425	-2.204	7.875	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.910	-0.533	7.577	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.794	-2.259	7.920	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.296	-1.083	9.136	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.266	0.013	9.064	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.082	-0.250	7.786	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.480	0.781	7.492	1.00	0.00	H
ATOM	470	N	ILE A	36145.845	0.904	5.117	1.00	0.00	N
ATOM	471	CA	ILE A	36146.383	2.155	4.598	1.00	0.00	C
ATOM	472	C	ILE A	36147.289	2.828	5.624	1.00	0.00	C
ATOM	473	O	ILE A	36147.059	2.731	6.829	1.00	0.00	O
ATOM	474	CB	ILE A	36145.257	3.132	4.201	1.00	0.00	C



ATOM	475	CG1	ILE A	36144.266	2.447	3.258	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.840	4.379	3.551	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.139	3.348	2.805	1.00	0.00	C
ATOM	478	H	ILE A	36144.876	0.808	5.227	1.00	0.00	H
ATOM	479	HA	ILE A	36146.963	1.929	3.715	1.00	0.00	H
ATOM	480	HB	ILE A	36144.739	3.433	5.099	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.792	2.108	2.377	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.830	1.596	3.760	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.314	4.111	2.618	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.571	4.821	4.211	1.00	0.00	H
ATOM	485	3HG2	ILE A	36145.049	5.089	3.363	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.702	2.953	1.899	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.524	4.339	2.615	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.384	3.396	3.576	1.00	0.00	H
ATOM	489	N	ARG A	37148.321	3.510	5.137	1.00	0.00	N
ATOM	490	CA	ARG A	37149.264	4.198	6.012	1.00	0.00	C
ATOM	491	C	ARG A	37149.478	5.638	5.558	1.00	0.00	C
ATOM	492	O	ARG A	37149.127	6.580	6.268	1.00	0.00	O
ATOM	493	CB	ARG A	37150.601	3.455	6.037	1.00	0.00	C
ATOM	494	CG	ARG A	37150.470	1.975	6.355	1.00	0.00	C
ATOM	495	CD	ARG A	37149.921	1.752	7.755	1.00	0.00	C
ATOM	496	NE	ARG A	37150.944	1.938	8.781	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.768	1.639	10.066	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.611	1.142	10.488	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.752	1.837	10.933	1.00	0.00	N
ATOM	500	H	ARG A	37148.453	3.549	4.167	1.00	0.00	H
ATOM	501	HA	ARG A	37148.847	4.204	7.007	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.073	3.554	5.071	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.236	3.906	6.786	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.800	1.521	5.641	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.444	1.513	6.283	1.00	0.00	H

ATOM	506	1HD	ARG A	37149.119	2.454	7.930	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.536	0.744	7.821	1.00	0.00	H
ATOM	508	HE	ARG A	37151.808	2.303	8.498	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.866	0.990	9.839	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.485	0.920	11.454	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.626	2.210	10.622	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.620	1.614	11.899	1.00	0.00	H
ATOM	513	N	TRP A	38150.056	5.802	4.372	1.00	0.00	N
ATOM	514	CA	TRP A	38150.316	7.130	3.827	1.00	0.00	C
ATOM	515	C	TRP A	38149.543	7.349	2.529	1.00	0.00	C
ATOM	516	O	TRP A	38149.546	6.497	1.641	1.00	0.00	O
ATOM	517	CB	TRP A	38151.817	7.323	3.584	1.00	0.00	C
ATOM	518	CG	TRP A	38152.143	8.561	2.801	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.412	9.801	3.302	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.227	8.676	1.376	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.659	10.681	2.275	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.551	10.014	1.082	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.060	7.777	0.318	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.711	10.472	-0.223	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.220	8.233	-0.977	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.543	9.570	-1.238	1.00	0.00	C
ATOM	527	H	TRP A	38150.314	5.013	3.852	1.00	0.00	H
ATOM	528	HA	TRP A	38149.984	7.857	4.554	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.323	7.387	4.535	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.198	6.472	3.037	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.426	10.044	4.354	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.878	11.631	2.379	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.811	6.743	0.500	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.958	11.501	-0.442	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.095	7.552	-1.806	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.658	9.883	-2.266	1.00	0.00	H

ATOM	537	N	ILE A	39148.894	8.503	2.427	1.00	0.00	N
ATOM	538	CA	ILE A	39148.126	8.850	1.238	1.00	0.00	C
ATOM	539	C	ILE A	39148.592	10.186	0.670	1.00	0.00	C
ATOM	540	O	ILE A	39148.308	11.242	1.233	1.00	0.00	O
ATOM	541	CB	ILE A	39146.619	8.932	1.547	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.161	7.685	2.304	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.823	9.101	0.261	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.788	7.822	2.924	1.00	0.00	C
ATOM	545	H	ILE A	39148.940	9.143	3.168	1.00	0.00	H
ATOM	546	HA	ILE A	39148.283	8.078	0.499	1.00	0.00	H
ATOM	547	HB	ILE A	39146.447	9.802	2.163	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.135	6.847	1.623	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.865	7.475	3.097	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.935	8.217	-0.349	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.190	9.961	-0.279	1.00	0.00	H
ATOM	552	3HG2	ILE A	39144.779	9.244	0.500	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.222	8.565	2.380	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.887	8.128	3.954	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.276	6.874	2.877	1.00	0.00	H
ATOM	556	N	GLY A	40149.317	10.133	-0.444	1.00	0.00	N
ATOM	557	CA	GLY A	40149.814	11.349	-1.058	1.00	0.00	C
ATOM	558	C	GLY A	40150.305	11.134	-2.475	1.00	0.00	C
ATOM	559	O	GLY A	40150.084	10.075	-3.064	1.00	0.00	O
ATOM	560	H	GLY A	40149.517	9.263	-0.848	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.024	12.082	-1.071	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.630	11.729	-0.461	1.00	0.00	H
ATOM	563	N	GLN A	41150.970	12.144	-3.024	1.00	0.00	N
ATOM	564	CA	GLN A	41151.495	12.072	-4.380	1.00	0.00	C
ATOM	565	C	GLN A	41152.978	12.443	-4.409	1.00	0.00	C
ATOM	566	O	GLN A	41153.344	13.581	-4.113	1.00	0.00	O
ATOM	567	CB	GLN A	41150.705	13.008	-5.294	1.00	0.00	C

ATOM	568	CG	GLN A	41149.198	12.857	-5.161	1.00	0.00	C
ATOM	569	CD	GLN A	41148.474	14.187	-5.206	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.498	14.954	-4.243	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.824	14.467	-6.327	1.00	0.00	N
ATOM	572	H	GLN A	41151.111	12.961	-2.503	1.00	0.00	H
ATOM	573	HA	GLN A	41151.378	11.058	-4.730	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.964	14.028	-5.055	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.976	12.807	-6.318	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.837	12.241	-5.970	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.979	12.376	-4.218	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.848	13.808	-7.052	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.348	15.321	-6.387	1.00	0.00	H
ATOM	580	N	PRO A	42153.856	11.486	-4.764	1.00	0.00	N
ATOM	581	CA	PRO A	42155.302	11.726	-4.824	1.00	0.00	C
ATOM	582	C	PRO A	42155.661	12.868	-5.770	1.00	0.00	C
ATOM	583	O	PRO A	42154.875	13.231	-6.645	1.00	0.00	O
ATOM	584	CB	PRO A	42155.868	10.402	-5.348	1.00	0.00	C
ATOM	585	CG	PRO A	42154.829	9.387	-5.017	1.00	0.00	C
ATOM	586	CD	PRO A	42153.514	10.100	-5.132	1.00	0.00	C
ATOM	587	HA	PRO A	42155.709	11.931	-3.845	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.027	10.473	-6.414	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.803	10.185	-4.853	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.876	8.569	-5.720	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.974	9.028	-4.009	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.144	10.050	-6.146	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.795	9.684	-4.443	1.00	0.00	H
ATOM	594	N	PRO A	43156.860	13.453	-5.604	1.00	0.00	N
ATOM	595	CA	PRO A	43157.321	14.559	-6.447	1.00	0.00	C
ATOM	596	C	PRO A	43157.678	14.101	-7.857	1.00	0.00	C
ATOM	597	O	PRO A	43158.830	13.773	-8.140	1.00	0.00	O
ATOM	598	CB	PRO A	43158.567	15.062	-5.721	1.00	0.00	C

ATOM	599	CG	PRO A	43159.073	13.877	-4.971	1.00	0.00	C
ATOM	600	CD	PRO A	43157.858	13.080	-4.583	1.00	0.00	C
ATOM	601	HA	PRO A	43156.587	15.349	-6.501	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.290	15.411	-6.444	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.299	15.866	-5.053	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.720	13.290	-5.607	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.606	14.201	-4.091	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.073	12.022	-4.624	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.522	13.360	-3.597	1.00	0.00	H
ATOM	608	N	GLY A	44156.684	14.083	-8.737	1.00	0.00	N
ATOM	609	CA	GLY A	44156.916	13.664	-10.106	1.00	0.00	C
ATOM	610	C	GLY A	44155.650	13.186	-10.789	1.00	0.00	C
ATOM	611	O	GLY A	44155.329	13.629	-11.892	1.00	0.00	O
ATOM	612	H	GLY A	44155.785	14.355	-8.454	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.319	14.497	-10.662	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.637	12.861	-10.107	1.00	0.00	H
ATOM	615	N	LEU A	45154.931	12.282	-10.134	1.00	0.00	N
ATOM	616	CA	LEU A	45153.693	11.747	-10.689	1.00	0.00	C
ATOM	617	C	LEU A	45152.520	12.016	-9.755	1.00	0.00	C
ATOM	618	O	LEU A	45152.446	11.454	-8.661	1.00	0.00	O
ATOM	619	CB	LEU A	45153.828	10.243	-10.936	1.00	0.00	C
ATOM	620	CG	LEU A	45154.377	9.438	-9.755	1.00	0.00	C
ATOM	621	CD1	LEU A	45153.938	7.983	-9.848	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.895	9.539	-9.700	1.00	0.00	C
ATOM	623	H	LEU A	45155.237	11.968	-9.256	1.00	0.00	H
ATOM	624	HA	LEU A	45153.510	12.242	-11.630	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.855	9.852	-11.190	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.487	10.095	-11.778	1.00	0.00	H
ATOM	627	HG	LEU A	45153.980	9.846	-8.836	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.493	7.801	-10.814	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.214	7.776	-9.074	1.00	0.00	H

ATOM	630	3HD1	LEU A	45154.795	7.338	-9.720	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.206	9.731	-8.683	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.228	10.346	-10.335	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.331	8.611	-10.039	1.00	0.00	H
ATOM	634	N	ASN A	46151.603	12.876	-10.187	1.00	0.00	N
ATOM	635	CA	ASN A	46150.440	13.205	-9.375	1.00	0.00	C
ATOM	636	C	ASN A	46149.451	12.046	-9.365	1.00	0.00	C
ATOM	637	O	ASN A	46148.777	11.780	-10.359	1.00	0.00	O
ATOM	638	CB	ASN A	46149.762	14.467	-9.912	1.00	0.00	C
ATOM	639	CG	ASN A	46148.887	15.142	-8.874	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.667	14.972	-8.867	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.507	15.914	-7.989	1.00	0.00	N
ATOM	642	H	ASN A	46151.711	13.294	-11.066	1.00	0.00	H
ATOM	643	HA	ASN A	46150.777	13.388	-8.365	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.518	15.169	-10.227	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.145	14.203	-10.759	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.480	16.003	-8.054	1.00	0.00	H
ATOM	647	2HD2	ASN A	46148.966	16.362	-7.306	1.00	0.00	H
ATOM	648	N	GLU A	47149.371	11.360	-8.230	1.00	0.00	N
ATOM	649	CA	GLU A	47148.465	10.227	-8.080	1.00	0.00	C
ATOM	650	C	GLU A	47148.336	9.831	-6.614	1.00	0.00	C
ATOM	651	O	GLU A	47149.326	9.488	-5.968	1.00	0.00	O
ATOM	652	CB	GLU A	47148.954	9.034	-8.906	1.00	0.00	C
ATOM	653	CG	GLU A	47150.467	8.871	-8.922	1.00	0.00	C
ATOM	654	CD	GLU A	47150.949	8.024	-10.084	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.281	6.841	-9.859	1.00	0.00	O
ATOM	656	OE2	GLU A	47150.993	8.543	-11.218	1.00	0.00	O
ATOM	657	H	GLU A	47149.934	11.622	-7.474	1.00	0.00	H
ATOM	658	HA	GLU A	47147.495	10.532	-8.444	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.522	8.130	-8.500	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.617	9.155	-9.925	1.00	0.00	H

ATOM	661	1HG	GLU A	47150.921	9.846	-8.996	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.776	8.400	-8.000	1.00	0.00	H
ATOM	663	N	VAL A	48147.114	9.870	-6.094	1.00	0.00	N
ATOM	664	CA	VAL A	48146.872	9.503	-4.705	1.00	0.00	C
ATOM	665	C	VAL A	48147.247	8.047	-4.462	1.00	0.00	C
ATOM	666	O	VAL A	48146.529	7.136	-4.873	1.00	0.00	O
ATOM	667	CB	VAL A	48145.398	9.717	-4.313	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.216	9.557	-2.812	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.916	11.084	-4.773	1.00	0.00	C
ATOM	670	H	VAL A	48146.361	10.145	-6.656	1.00	0.00	H
ATOM	671	HA	VAL A	48147.489	10.134	-4.079	1.00	0.00	H
ATOM	672	HB	VAL A	48144.802	8.964	-4.807	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.039	8.517	-2.579	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.372	10.147	-2.486	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.107	9.893	-2.304	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.445	10.993	-5.741	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.756	11.758	-4.844	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.202	11.473	-4.062	1.00	0.00	H
ATOM	679	N	LEU A	49148.379	7.832	-3.799	1.00	0.00	N
ATOM	680	CA	LEU A	49148.848	6.483	-3.510	1.00	0.00	C
ATOM	681	C	LEU A	49148.744	6.177	-2.020	1.00	0.00	C
ATOM	682	O	LEU A	49149.376	6.837	-1.195	1.00	0.00	O
ATOM	683	CB	LEU A	49150.295	6.312	-3.976	1.00	0.00	C
ATOM	684	CG	LEU A	49150.530	6.565	-5.466	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.936	7.094	-5.703	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.295	5.292	-6.266	1.00	0.00	C
ATOM	687	H	LEU A	49148.911	8.598	-3.500	1.00	0.00	H
ATOM	688	HA	LEU A	49148.221	5.791	-4.051	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.916	6.994	-3.413	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.606	5.303	-3.753	1.00	0.00	H
ATOM	691	HG	LEU A	49149.830	7.312	-5.812	1.00	0.00	H

ATOM	692	1HD1	LEU A	49152.625	6.597	-5.035	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.956	8.157	-5.515	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.224	6.904	-6.725	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.234	5.144	-6.403	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.710	4.450	-5.731	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.775	5.379	-7.229	1.00	0.00	H
ATOM	698	N	ALAA	50147.942	5.175	-1.682	1.00	0.00	N
ATOM	699	CA	ALAA	50147.757	4.783	-0.293	1.00	0.00	C
ATOM	700	C	ALAA	50148.708	3.652	0.087	1.00	0.00	C
ATOM	701	O	ALAA	50148.610	2.543	-0.438	1.00	0.00	O
ATOM	702	CB	ALAA	50146.314	4.370	-0.048	1.00	0.00	C
ATOM	703	H	ALAA	50147.465	4.685	-2.385	1.00	0.00	H
ATOM	704	HA	ALAA	50147.971	5.644	0.324	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.880	4.013	-0.970	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.752	5.221	0.310	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.285	3.584	0.692	1.00	0.00	H
ATOM	708	N	GLYA	51149.627	3.939	1.002	1.00	0.00	N
ATOM	709	CA	GLYA	51150.582	2.936	1.435	1.00	0.00	C
ATOM	710	C	GLYA	51149.944	1.857	2.288	1.00	0.00	C
ATOM	711	O	GLYA	51149.667	2.072	3.467	1.00	0.00	O
ATOM	712	H	GLYA	51149.659	4.841	1.386	1.00	0.00	H
ATOM	713	1HA	GLYA	51151.024	2.476	0.563	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.360	3.419	2.007	1.00	0.00	H
ATOM	715	N	LEU A	52149.711	0.693	1.690	1.00	0.00	N
ATOM	716	CA	LEU A	52149.101	-0.422	2.404	1.00	0.00	C
ATOM	717	C	LEU A	52150.167	-1.303	3.049	1.00	0.00	C
ATOM	718	O	LEU A	52151.186	-1.613	2.434	1.00	0.00	O
ATOM	719	CB	LEU A	52148.242	-1.257	1.453	1.00	0.00	C
ATOM	720	CG	LEU A	52146.950	-0.583	0.988	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.322	-1.365	-0.155	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.973	-0.450	2.147	1.00	0.00	C



ATOM	723	H	LEU A	52149.954	0.582	0.748	1.00	0.00	H
ATOM	724	HA	LEU A	52148.471	-0.014	3.180	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.835	-1.494	0.581	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.981	-2.179	1.951	1.00	0.00	H
ATOM	727	HG	LEU A	52147.179	0.409	0.627	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.643	-2.395	-0.105	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.632	-0.936	-1.097	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.246	-1.319	-0.075	1.00	0.00	H
ATOM	731	1HD2	LEU A	52144.964	-0.560	1.781	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.087	0.521	2.604	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.176	-1.219	2.878	1.00	0.00	H
ATOM	734	N	GLU A	53149.923	-1.701	4.293	1.00	0.00	N
ATOM	735	CA	GLU A	53150.860	-2.546	5.023	1.00	0.00	C
ATOM	736	C	GLU A	53150.365	-3.987	5.075	1.00	0.00	C
ATOM	737	O	GLU A	53149.400	-4.298	5.775	1.00	0.00	O
ATOM	738	CB	GLU A	53151.064	-2.012	6.442	1.00	0.00	C
ATOM	739	CG	GLU A	53152.062	-2.817	7.258	1.00	0.00	C
ATOM	740	CD	GLU A	53151.663	-2.934	8.716	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.507	-2.640	9.588	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.505	-3.320	8.985	1.00	0.00	O
ATOM	743	H	GLU A	53149.092	-1.420	4.731	1.00	0.00	H
ATOM	744	HA	GLU A	53151.805	-2.522	4.499	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.418	-0.993	6.383	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.115	-2.025	6.958	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.132	-3.810	6.839	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.026	-2.334	7.201	1.00	0.00	H
ATOM	749	N	LEU A	54151.031	-4.864	4.331	1.00	0.00	N
ATOM	750	CA	LEU A	54150.656	-6.273	4.293	1.00	0.00	C
ATOM	751	C	LEU A	54150.886	-6.932	5.649	1.00	0.00	C
ATOM	752	O	LEU A	54151.925	-6.736	6.278	1.00	0.00	O
ATOM	753	CB	LEU A	54151.457	-7.006	3.214	1.00	0.00	C

ATOM	754	CG	LEU A	54151.439	-6.347	1.835	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.671	-6.744	1.038	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.171	-6.721	1.083	1.00	0.00	C
ATOM	757	H	LEU A	54151.791	-4.556	3.794	1.00	0.00	H
ATOM	758	HA	LEU A	54149.606	-6.331	4.051	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.483	-7.077	3.544	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.058	-8.004	3.116	1.00	0.00	H
ATOM	761	HG	LEU A	54151.452	-5.273	1.957	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.477	-6.611	-0.016	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.908	-7.779	1.233	1.00	0.00	H
ATOM	764	3HD1	LEU A	54153.505	-6.123	1.331	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.358	-6.840	1.783	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.328	-7.650	0.553	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.927	-5.941	0.377	1.00	0.00	H
ATOM	768	N	GLU A	55149.907	-7.714	6.094	1.00	0.00	N
ATOM	769	CA	GLU A	55150.001	-8.401	7.377	1.00	0.00	C
ATOM	770	C	GLU A	55151.060	-9.499	7.330	1.00	0.00	C
ATOM	771	O	GLU A	55151.701	-9.799	8.336	1.00	0.00	O
ATOM	772	CB	GLU A	55148.646	-8.998	7.759	1.00	0.00	C
ATOM	773	CG	GLU A	55147.674	-7.981	8.333	1.00	0.00	C
ATOM	774	CD	GLU A	55148.170	-7.364	9.626	1.00	0.00	C
ATOM	775	OE1	GLU A	55148.415	-8.122	10.589	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.315	-6.125	9.676	1.00	0.00	O
ATOM	777	H	GLU A	55149.103	-7.830	5.547	1.00	0.00	H
ATOM	778	HA	GLU A	55150.288	-7.675	8.122	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.198	-9.437	6.880	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.802	-9.772	8.497	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.528	-7.193	7.609	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.730	-8.471	8.524	1.00	0.00	H
ATOM	783	N	ASPA	56151.235	-10.095	6.155	1.00	0.00	N
ATOM	784	CA	ASPA	56152.215	-11.161	5.978	1.00	0.00	C

ATOM	785	C	ASP A	56153.472	-10.635	5.293	1.00	0.00	C
ATOM	786	O	ASP A	56153.399	-10.016	4.231	1.00	0.00	O
ATOM	787	CB	ASP A	56151.614	-12.305	5.159	1.00	0.00	C
ATOM	788	CG	ASP A	56152.086	-13.665	5.635	1.00	0.00	C
ATOM	789	OD1	ASP A	56153.314	-13.865	5.739	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.226	-14.531	5.903	1.00	0.00	O
ATOM	791	H	ASP A	56150.692	-9.813	5.390	1.00	0.00	H
ATOM	792	HA	ASP A	56152.481	-11.532	6.956	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.538	-12.270	5.239	1.00	0.00	H
ATOM	794	2HB	ASP A	56151.900	-12.187	4.124	1.00	0.00	H
ATOM	795	N	GLU A	57154.623	-10.886	5.908	1.00	0.00	N
ATOM	796	CA	GLU A	57155.897	-10.437	5.358	1.00	0.00	C
ATOM	797	C	GLU A	57156.146	-11.058	3.987	1.00	0.00	C
ATOM	798	O	GLU A	57156.676	-12.164	3.883	1.00	0.00	O
ATOM	799	CB	GLU A	57157.041	-10.794	6.308	1.00	0.00	C
ATOM	800	CG	GLU A	57157.055	-9.966	7.582	1.00	0.00	C
ATOM	801	CD	GLU A	57158.284	-10.222	8.432	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.123	-10.572	9.620	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.408	-10.075	7.908	1.00	0.00	O
ATOM	804	H	GLU A	57154.616	-11.383	6.752	1.00	0.00	H
ATOM	805	HA	GLU A	57155.852	-9.364	5.250	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.955	-11.835	6.582	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.980	-10.642	5.796	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.031	-8.919	7.317	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.176	-10.208	8.163	1.00	0.00	H
ATOM	810	N	CYS A	58155.763	-10.338	2.938	1.00	0.00	N
ATOM	811	CA	CYS A	58155.945	-10.818	1.573	1.00	0.00	C
ATOM	812	C	CYS A	58157.246	-10.289	0.980	1.00	0.00	C
ATOM	813	O	CYS A	58157.473	-9.080	0.932	1.00	0.00	O
ATOM	814	CB	CYS A	58154.763	-10.394	0.699	1.00	0.00	C
ATOM	815	SG	CYS A	58154.436	-11.507	-0.689	1.00	0.00	S

ATOM	816	H	CYS A	58155.347	-9.463	3.085	1.00	0.00	H
ATOM	817	HA	CYS A	58155.990	-11.897	1.605	1.00	0.00	H
ATOM	818	1HB	CYS A	58153.871	-10.358	1.306	1.00	0.00	H
ATOM	819	2HB	CYS A	58154.958	-9.412	0.295	1.00	0.00	H
ATOM	820	HG	CYS A	58153.900	-11.032	-1.328	1.00	0.00	H
ATOM	821	N	ALA A	59158.100	-11.203	0.529	1.00	0.00	N
ATOM	822	CA	ALA A	59159.379	-10.828	-0.061	1.00	0.00	C
ATOM	823	C	ALA A	59159.178	-10.053	-1.359	1.00	0.00	C
ATOM	824	O	ALA A	59158.634	-10.579	-2.330	1.00	0.00	O
ATOM	825	CB	ALA A	59160.228	-12.065	-0.310	1.00	0.00	C
ATOM	826	H	ALA A	59157.863	-12.152	0.594	1.00	0.00	H
ATOM	827	HA	ALA A	59159.900	-10.199	0.645	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.950	-11.858	-1.085	1.00	0.00	H
ATOM	829	2HB	ALA A	59159.592	-12.882	-0.618	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.745	-12.336	0.600	1.00	0.00	H
ATOM	831	N	GLY A	60159.621	-8.800	-1.369	1.00	0.00	N
ATOM	832	CA	GLY A	60159.480	-7.973	-2.552	1.00	0.00	C
ATOM	833	C	GLY A	60159.106	-6.542	-2.218	1.00	0.00	C
ATOM	834	O	GLY A	60159.440	-5.617	-2.959	1.00	0.00	O
ATOM	835	H	GLY A	60160.046	-8.434	-0.565	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.416	-7.972	-3.091	1.00	0.00	H
ATOM	837	2HA	GLY A	60158.713	-8.396	-3.184	1.00	0.00	H
ATOM	838	N	CYS A	61158.411	-6.360	-1.100	1.00	0.00	N
ATOM	839	CA	CYS A	61157.991	-5.031	-0.668	1.00	0.00	C
ATOM	840	C	CYS A	61159.058	-4.381	0.206	1.00	0.00	C
ATOM	841	O	CYS A	61160.067	-5.004	0.538	1.00	0.00	O
ATOM	842	CB	CYS A	61156.669	-5.115	0.097	1.00	0.00	C
ATOM	843	SG	CYS A	61155.341	-5.938	-0.813	1.00	0.00	S
ATOM	844	H	CYS A	61158.176	-7.137	-0.552	1.00	0.00	H
ATOM	845	HA	CYS A	61157.848	-4.426	-1.552	1.00	0.00	H
ATOM	846	1HB	CYS A	61156.827	-5.664	1.013	1.00	0.00	H

ATOM	847	2HB	CYS A	61156.337	-4.115	0.334	1.00	0.00	H
ATOM	848	HG	CYS A	61154.750	-5.260	-1.151	1.00	0.00	H
ATOM	849	N	THR A	62158.829	-3.125	0.574	1.00	0.00	N
ATOM	850	CA	THR A	62159.770	-2.390	1.410	1.00	0.00	C
ATOM	851	C	THR A	62159.230	-2.229	2.827	1.00	0.00	C
ATOM	852	O	THR A	62158.159	-2.740	3.155	1.00	0.00	O
ATOM	853	CB	THR A	62160.058	-1.016	0.803	1.00	0.00	C
ATOM	854	OG1	THR A	62158.932	-0.537	0.089	1.00	0.00	O
ATOM	855	CG2	THR A	62161.237	-1.016	-0.146	1.00	0.00	C
ATOM	856	H	THR A	62158.007	-2.681	0.277	1.00	0.00	H
ATOM	857	HA	THR A	62160.690	-2.956	1.450	1.00	0.00	H
ATOM	858	HB	THR A	62160.276	-0.320	1.600	1.00	0.00	H
ATOM	859	HG1	THR A	62158.208	-0.381	0.700	1.00	0.00	H
ATOM	860	1HG2	THR A	62162.101	-0.600	0.352	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.000	-0.419	-1.015	1.00	0.00	H
ATOM	862	3HG2	THR A	62161.453	-2.029	-0.453	1.00	0.00	H
ATOM	863	N	ASP A	63159.978	-1.518	3.663	1.00	0.00	N
ATOM	864	CA	ASP A	63159.574	-1.291	5.046	1.00	0.00	C
ATOM	865	C	ASP A	63158.917	0.076	5.203	1.00	0.00	C
ATOM	866	O	ASP A	63159.058	0.729	6.238	1.00	0.00	O
ATOM	867	CB	ASP A	63160.782	-1.399	5.977	1.00	0.00	C
ATOM	868	CG	ASP A	63161.849	-0.367	5.663	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.137	-0.158	4.466	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.395	0.231	6.613	1.00	0.00	O
ATOM	871	H	ASP A	63160.822	-1.137	3.343	1.00	0.00	H
ATOM	872	HA	ASP A	63158.857	-2.054	5.312	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.458	-1.253	6.997	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.218	-2.382	5.879	1.00	0.00	H
ATOM	875	N	GLY A	64158.199	0.504	4.170	1.00	0.00	N
ATOM	876	CA	GLY A	64157.531	1.793	4.215	1.00	0.00	C
ATOM	877	C	GLY A	64158.292	2.866	3.462	1.00	0.00	C

ATOM	878	O	GLY A	64158.356	4.014	3.901	1.00	0.00	O
ATOM	879	H	GLY A	64158.122	-0.059	3.372	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.549	1.691	3.779	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.427	2.096	5.245	1.00	0.00	H
ATOM	882	N	THR A	65158.870	2.492	2.325	1.00	0.00	N
ATOM	883	CA	THR A	65159.630	3.431	1.509	1.00	0.00	C
ATOM	884	C	THR A	65159.197	3.358	0.049	1.00	0.00	C
ATOM	885	O	THR A	65159.314	2.313	-0.592	1.00	0.00	O
ATOM	886	CB	THR A	65161.127	3.144	1.624	1.00	0.00	C
ATOM	887	OG1	THR A	65161.357	1.761	1.838	1.00	0.00	O
ATOM	888	CG2	THR A	65161.798	3.899	2.751	1.00	0.00	C
ATOM	889	H	THR A	65158.782	1.562	2.027	1.00	0.00	H
ATOM	890	HA	THR A	65159.435	4.427	1.880	1.00	0.00	H
ATOM	891	HB	THR A	65161.611	3.429	0.702	1.00	0.00	H
ATOM	892	HG1	THR A	65161.036	1.514	2.708	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.522	4.942	2.700	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.870	3.806	2.660	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.480	3.489	3.699	1.00	0.00	H
ATOM	896	N	PHE A	66158.697	4.474	-0.471	1.00	0.00	N
ATOM	897	CA	PHE A	66158.247	4.536	-1.858	1.00	0.00	C
ATOM	898	C	PHE A	66159.181	5.403	-2.695	1.00	0.00	C
ATOM	899	O	PHE A	66159.203	6.625	-2.553	1.00	0.00	O
ATOM	900	CB	PHE A	66156.821	5.087	-1.927	1.00	0.00	C
ATOM	901	CG	PHE A	66156.154	4.856	-3.253	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.945	3.569	-3.724	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.734	5.925	-4.028	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.330	3.354	-4.942	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.120	5.716	-5.248	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.917	4.429	-5.706	1.00	0.00	C
ATOM	907	H	PHE A	66158.629	5.274	0.089	1.00	0.00	H
ATOM	908	HA	PHE A	66158.255	3.531	-2.254	1.00	0.00	H

ATOM	909	1HB	PHE A	66156.221	4.611	-1.167	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.845	6.151	-1.747	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.266	2.729	-3.128	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.892	6.932	-3.671	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.174	2.346	-5.299	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.798	6.558	-5.843	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.437	4.263	-6.659	1.00	0.00	H
ATOM	916	N	ARG A	67159.951	4.762	-3.568	1.00	0.00	N
ATOM	917	CA	ARG A	67160.888	5.474	-4.429	1.00	0.00	C
ATOM	918	C	ARG A	67161.917	6.237	-3.601	1.00	0.00	C
ATOM	919	O	ARG A	67162.338	7.333	-3.971	1.00	0.00	O
ATOM	920	CB	ARG A	67160.136	6.442	-5.345	1.00	0.00	C
ATOM	921	CG	ARG A	67159.205	5.749	-6.328	1.00	0.00	C
ATOM	922	CD	ARG A	67159.131	6.501	-7.648	1.00	0.00	C
ATOM	923	NE	ARG A	67158.614	5.661	-8.726	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.732	5.959	-10.018	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.348	7.072	-10.396	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.234	5.140	-10.935	1.00	0.00	N
ATOM	927	H	ARG A	67159.888	3.786	-3.635	1.00	0.00	H
ATOM	928	HA	ARG A	67161.402	4.744	-5.036	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.547	7.112	-4.737	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.855	7.019	-5.908	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.572	4.751	-6.514	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.216	5.699	-5.896	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.480	7.353	-7.525	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.122	6.839	-7.911	1.00	0.00	H
ATOM	935	HE	ARG A	67158.156	4.832	-8.475	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.726	7.693	-9.711	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.433	7.290	-11.369	1.00	0.00	H
ATOM	938	1HH2	ARG A	67157.770	4.299	-10.655	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.323	5.363	-11.906	1.00	0.00	H

ATOM	940	N	GLY A	68162.316	5.650	-2.477	1.00	0.00	N
ATOM	941	CA	GLY A	68163.293	6.288	-1.614	1.00	0.00	C
ATOM	942	C	GLY A	68162.707	7.451	-0.837	1.00	0.00	C
ATOM	943	O	GLY A	68163.417	8.399	-0.497	1.00	0.00	O
ATOM	944	H	GLY A	68161.946	4.777	-2.233	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.671	5.557	-0.914	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.111	6.649	-2.219	1.00	0.00	H
ATOM	947	N	THR A	69161.410	7.382	-0.558	1.00	0.00	N
ATOM	948	CA	THR A	69160.730	8.437	0.183	1.00	0.00	C
ATOM	949	C	THR A	69159.961	7.861	1.368	1.00	0.00	C
ATOM	950	O	THR A	69158.814	7.435	1.229	1.00	0.00	O
ATOM	951	CB	THR A	69159.775	9.199	-0.736	1.00	0.00	C
ATOM	952	OG1	THR A	69160.414	9.534	-1.956	1.00	0.00	O
ATOM	953	CG2	THR A	69159.252	10.482	-0.126	1.00	0.00	C
ATOM	954	H	THR A	69160.899	6.601	-0.857	1.00	0.00	H
ATOM	955	HA	THR A	69161.481	9.119	0.554	1.00	0.00	H
ATOM	956	HB	THR A	69158.926	8.569	-0.959	1.00	0.00	H
ATOM	957	HG1	THR A	69159.785	9.968	-2.538	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.058	10.996	0.376	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.474	10.251	0.586	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.852	11.114	-0.905	1.00	0.00	H
ATOM	961	N	ARG A	70160.601	7.852	2.533	1.00	0.00	N
ATOM	962	CA	ARG A	70159.977	7.329	3.742	1.00	0.00	C
ATOM	963	C	ARG A	70158.734	8.134	4.107	1.00	0.00	C
ATOM	964	O	ARG A	70158.803	9.349	4.297	1.00	0.00	O
ATOM	965	CB	ARG A	70160.971	7.350	4.905	1.00	0.00	C
ATOM	966	CG	ARG A	70160.431	6.721	6.179	1.00	0.00	C
ATOM	967	CD	ARG A	70161.137	7.265	7.410	1.00	0.00	C
ATOM	968	NE	ARG A	70162.447	6.649	7.608	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.112	6.674	8.761	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.594	7.282	9.820	1.00	0.00	N



ATOM	971	NH2	ARG A	70164.298	6.088	8.854	1.00	0.00	N
ATOM	972	H	ARG A	70161.513	8.206	2.580	1.00	0.00	H
ATOM	973	HA	ARG A	70159.684	6.308	3.550	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.861	6.811	4.612	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.236	8.375	5.119	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.376	6.937	6.256	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.579	5.652	6.132	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.265	8.331	7.295	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.523	7.069	8.277	1.00	0.00	H
ATOM	980	HE	ARG A	70162.853	6.193	6.841	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.700	7.725	9.757	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.099	7.296	10.684	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.693	5.628	8.059	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.798	6.107	9.720	1.00	0.00	H
ATOM	985	N	TYR A	71157.599	7.450	4.202	1.00	0.00	N
ATOM	986	CA	TYR A	71156.340	8.102	4.544	1.00	0.00	C
ATOM	987	C	TYR A	71155.897	7.724	5.954	1.00	0.00	C
ATOM	988	O	TYR A	71155.405	8.564	6.707	1.00	0.00	O
ATOM	989	CB	TYR A	71155.254	7.720	3.537	1.00	0.00	C
ATOM	990	CG	TYR A	71155.396	8.412	2.201	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.303	7.697	1.013	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.622	9.780	2.126	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.433	8.326	-0.211	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.753	10.417	0.906	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.657	9.685	-0.259	1.00	0.00	C
ATOM	996	OH	TYR A	71155.787	10.315	-1.475	1.00	0.00	O
ATOM	997	H	TYR A	71157.608	6.484	4.040	1.00	0.00	H
ATOM	998	HA	TYR A	71156.497	9.169	4.503	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.291	6.655	3.365	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.288	7.980	3.945	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.127	6.632	1.054	1.00	0.00	H

ATOM	1002	HD2 TYR A	71155.697	10.351	3.040	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.358	7.753	-1.123	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.928	11.482	0.869	1.00	0.00	H
ATOM	1005	HH TYR A	71154.930	10.355	-1.908	1.00	0.00	H
ATOM	1006	N PHE A	72156.076	6.455	6.305	1.00	0.00	N
ATOM	1007	CA PHE A	72155.696	5.966	7.625	1.00	0.00	C
ATOM	1008	C PHE A	72156.641	4.861	8.088	1.00	0.00	C
ATOM	1009	O PHE A	72157.508	4.418	7.337	1.00	0.00	O
ATOM	1010	CB PHE A	72154.258	5.448	7.604	1.00	0.00	C
ATOM	1011	CG PHE A	72153.990	4.464	6.500	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.698	4.904	5.218	1.00	0.00	C
ATOM	1013	CD2 PHE A	72154.029	3.101	6.745	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.452	4.002	4.201	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.783	2.194	5.730	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.494	2.645	4.458	1.00	0.00	C
ATOM	1017	H PHE A	72156.474	5.833	5.661	1.00	0.00	H
ATOM	1018	HA PHE A	72155.762	6.792	8.316	1.00	0.00	H
ATOM	1019	1HB PHE A	72154.044	4.958	8.542	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.584	6.282	7.478	1.00	0.00	H
ATOM	1021	HD1 PHE A	72153.665	5.965	5.017	1.00	0.00	H
ATOM	1022	HD2 PHE A	72154.255	2.748	7.740	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.225	4.358	3.207	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.817	1.134	5.933	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.302	1.938	3.664	1.00	0.00	H
ATOM	1026	N THR A	73156.464	4.421	9.330	1.00	0.00	N
ATOM	1027	CA THR A	73157.299	3.368	9.893	1.00	0.00	C
ATOM	1028	C THR A	73156.513	2.070	10.043	1.00	0.00	C
ATOM	1029	O THR A	73155.528	2.011	10.779	1.00	0.00	O
ATOM	1030	CB THR A	73157.855	3.800	11.251	1.00	0.00	C
ATOM	1031	OG1 THR A	73158.737	2.819	11.768	1.00	0.00	O
ATOM	1032	CG2 THR A	73156.779	4.043	12.287	1.00	0.00	C

ATOM 1033 H THR A 73155.755 4.813 9.880 1.00 0.00 H  
 ATOM 1034 HA THR A 73158.123 3.199 9.215 1.00 0.00 H  
 ATOM 1035 HB THR A 73158.407 4.721 11.126 1.00 0.00 H  
 ATOM 1036 HG1 THR A 73159.362 2.559 11.087 1.00 0.00 H  
 ATOM 1037 1HG2 THR A 73156.697 3.178 12.930 1.00 0.00 H  
 ATOM 1038 2HG2 THR A 73155.835 4.216 11.793 1.00 0.00 H  
 ATOM 1039 3HG2 THR A 73157.039 4.908 12.880 1.00 0.00 H  
 ATOM 1040 N CYS A 74156.954 1.031 9.342 1.00 0.00 N  
 ATOM 1041 CA CYS A 74156.291 -0.267 9.397 1.00 0.00 C  
 ATOM 1042 C CYS A 74157.312 -1.400 9.369 1.00 0.00 C  
 ATOM 1043 O CYS A 74158.519 -1.162 9.326 1.00 0.00 O  
 ATOM 1044 CB CYS A 74155.315 -0.415 8.228 1.00 0.00 C  
 ATOM 1045 SG CYS A 74153.644 0.174 8.585 1.00 0.00 S  
 ATOM 1046 H CYS A 74157.745 1.139 8.773 1.00 0.00 H  
 ATOM 1047 HA CYS A 74155.740 -0.318 10.324 1.00 0.00 H  
 ATOM 1048 1HB CYS A 74155.687 0.147 7.385 1.00 0.00 H  
 ATOM 1049 2HB CYS A 74155.246 -1.458 7.957 1.00 0.00 H  
 ATOM 1050 HG CYS A 74153.401 0.807 7.905 1.00 0.00 H  
 ATOM 1051 N ALA A 75156.818 -2.634 9.393 1.00 0.00 N  
 ATOM 1052 CA ALA A 75157.687 -3.805 9.371 1.00 0.00 C  
 ATOM 1053 C ALA A 75158.283 -4.020 7.984 1.00 0.00 C  
 ATOM 1054 O ALA A 75157.729 -3.566 6.982 1.00 0.00 O  
 ATOM 1055 CB ALA A 75156.917 -5.040 9.814 1.00 0.00 C  
 ATOM 1056 H ALA A 75155.847 -2.760 9.427 1.00 0.00 H  
 ATOM 1057 HA ALA A 75158.489 -3.638 10.075 1.00 0.00 H  
 ATOM 1058 1HB ALA A 75155.867 -4.905 9.601 1.00 0.00 H  
 ATOM 1059 2HB ALA A 75157.053 -5.188 10.875 1.00 0.00 H  
 ATOM 1060 3HB ALA A 75157.284 -5.905 9.281 1.00 0.00 H  
 ATOM 1061 N LEU A 76159.415 -4.714 7.933 1.00 0.00 N  
 ATOM 1062 CA LEU A 76160.087 -4.989 6.668 1.00 0.00 C  
 ATOM 1063 C LEU A 76159.292 -5.989 5.836 1.00 0.00 C

ATOM 1064 O LEU A 76158.703 -6.928 6.371 1.00 0.00 O  
 ATOM 1065 CB LEU A 76161.497 -5.526 6.922 1.00 0.00 C  
 ATOM 1066 CG LEU A 76162.526 -4.473 7.335 1.00 0.00 C  
 ATOM 1067 CD1 LEU A 76163.556 -5.076 8.278 1.00 0.00 C  
 ATOM 1068 CD2 LEU A 76163.205 -3.884 6.109 1.00 0.00 C  
 ATOM 1069 H LEU A 76159.809 -5.049 8.766 1.00 0.00 H  
 ATOM 1070 HA LEU A 76160.158 -4.060 6.123 1.00 0.00 H  
 ATOM 1071 1HB LEU A 76161.440 -6.270 7.703 1.00 0.00 H  
 ATOM 1072 2HB LEU A 76161.846 -6.002 6.018 1.00 0.00 H  
 ATOM 1073 HG LEU A 76162.024 -3.672 7.858 1.00 0.00 H  
 ATOM 1074 1HD1 LEU A 76164.227 -4.301 8.621 1.00 0.00 H  
 ATOM 1075 2HD1 LEU A 76164.119 -5.836 7.758 1.00 0.00 H  
 ATOM 1076 3HD1 LEU A 76163.054 -5.516 9.127 1.00 0.00 H  
 ATOM 1077 1HD2 LEU A 76164.119 -4.423 5.908 1.00 0.00 H  
 ATOM 1078 2HD2 LEU A 76163.435 -2.843 6.288 1.00 0.00 H  
 ATOM 1079 3HD2 LEU A 76162.545 -3.964 5.258 1.00 0.00 H  
 ATOM 1080 N LYS A 77159.280 -5.781 4.523 1.00 0.00 N  
 ATOM 1081 CA LYS A 77158.557 -6.664 3.615 1.00 0.00 C  
 ATOM 1082 C LYS A 77157.066 -6.671 3.934 1.00 0.00 C  
 ATOM 1083 O LYS A 77156.405 -7.706 3.838 1.00 0.00 O  
 ATOM 1084 CB LYS A 77159.116 -8.086 3.701 1.00 0.00 C  
 ATOM 1085 CG LYS A 77160.612 -8.168 3.444 1.00 0.00 C  
 ATOM 1086 CD LYS A 77160.947 -7.836 1.998 1.00 0.00 C  
 ATOM 1087 CE LYS A 77162.232 -7.030 1.896 1.00 0.00 C  
 ATOM 1088 NZ LYS A 77163.397 -7.769 2.455 1.00 0.00 N  
 ATOM 1089 H LYS A 77159.769 -5.015 4.155 1.00 0.00 H  
 ATOM 1090 HA LYS A 77158.696 -6.293 2.611 1.00 0.00 H  
 ATOM 1091 1HB LYS A 77158.921 -8.478 4.689 1.00 0.00 H  
 ATOM 1092 2HB LYS A 77158.612 -8.703 2.972 1.00 0.00 H  
 ATOM 1093 1HG LYS A 77161.118 -7.467 4.090 1.00 0.00 H  
 ATOM 1094 2HG LYS A 77160.950 -9.171 3.661 1.00 0.00 H

ATOM	1095	1HD	LYS A	77161.066	-8.755	1.445	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.137	-7.261	1.575	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.423	-6.812	0.855	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.107	-6.106	2.440	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.792	-8.411	1.738	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.103	-8.329	3.281	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.136	-7.099	2.751	1.00	0.00	H
ATOM	1102	N	LYS A	78156.541	-5.511	4.313	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.127	-5.382	4.646	1.00	0.00	C
ATOM	1104	C	LYS A	78154.606	-3.995	4.282	1.00	0.00	C
ATOM	1105	O	LYS A	78153.800	-3.414	5.007	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.906	-5.649	6.136	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.398	-7.014	6.589	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.107	-7.251	8.062	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.901	-8.157	8.253	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.055	-7.722	9.398	1.00	0.00	N
ATOM	1111	H	LYS A	78157.119	-4.721	4.370	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.585	-6.119	4.073	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.428	-4.895	6.706	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.850	-5.582	6.349	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.903	-7.776	6.006	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.465	-7.072	6.428	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.968	-7.715	8.519	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.912	-6.302	8.539	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.307	-8.140	7.352	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.248	-9.164	8.434	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.621	-7.164	10.069	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.669	-8.552	9.894	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.265	-7.138	9.057	1.00	0.00	H
ATOM	1124	N	ALAA	79155.073	-3.472	3.153	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.655	-2.153	2.692	1.00	0.00	C

ATOM 1126 C ALAA 79154.517 -2.120 1.174 1.00 0.00 C  
 ATOM 1127 O ALAA 79155.505 -1.978 0.454 1.00 0.00 O  
 ATOM 1128 CB ALAA 79155.643 -1.094 3.158 1.00 0.00 C  
 ATOM 1129 H ALAA 79155.715 -3.984 2.618 1.00 0.00 H  
 ATOM 1130 HA ALAA 79153.694 -1.934 3.136 1.00 0.00 H  
 ATOM 1131 1HB ALAA 79155.109 -0.193 3.418 1.00 0.00 H  
 ATOM 1132 2HB ALAA 79156.343 -0.882 2.363 1.00 0.00 H  
 ATOM 1133 3HB ALAA 79156.180 -1.458 4.022 1.00 0.00 H  
 ATOM 1134 N LEUA 80153.284 -2.253 0.695 1.00 0.00 N  
 ATOM 1135 CA LEUA 80153.016 -2.239 -0.738 1.00 0.00 C  
 ATOM 1136 C LEUA 80152.228 -0.993 -1.131 1.00 0.00 C  
 ATOM 1137 O LEUA 80151.021 -0.912 -0.900 1.00 0.00 O  
 ATOM 1138 CB LEUA 80152.243 -3.495 -1.146 1.00 0.00 C  
 ATOM 1139 CG LEUA 80151.860 -3.568 -2.625 1.00 0.00 C  
 ATOM 1140 CD1 LEUA 80152.992 -4.173 -3.440 1.00 0.00 C  
 ATOM 1141 CD2 LEUA 80150.582 -4.372 -2.804 1.00 0.00 C  
 ATOM 1142 H LEUA 80152.538 -2.364 1.320 1.00 0.00 H  
 ATOM 1143 HA LEUA 80153.965 -2.227 -1.254 1.00 0.00 H  
 ATOM 1144 1HB LEUA 80152.849 -4.357 -0.909 1.00 0.00 H  
 ATOM 1145 2HB LEUA 80151.338 -3.541 -0.561 1.00 0.00 H  
 ATOM 1146 HG LEUA 80151.683 -2.567 -2.994 1.00 0.00 H  
 ATOM 1147 1HD1 LEUA 80153.928 -4.030 -2.920 1.00 0.00 H  
 ATOM 1148 2HD1 LEUA 80153.039 -3.691 -4.404 1.00 0.00 H  
 ATOM 1149 3HD1 LEUA 80152.813 -5.230 -3.574 1.00 0.00 H  
 ATOM 1150 1HD2 LEUA 80149.732 -3.705 -2.783 1.00 0.00 H  
 ATOM 1151 2HD2 LEUA 80150.494 -5.092 -2.005 1.00 0.00 H  
 ATOM 1152 3HD2 LEUA 80150.611 -4.887 -3.753 1.00 0.00 H  
 ATOM 1153 N PHEA 81152.918 -0.024 -1.724 1.00 0.00 N  
 ATOM 1154 CA PHEA 81152.282 1.217 -2.148 1.00 0.00 C  
 ATOM 1155 C PHEA 81151.414 0.992 -3.380 1.00 0.00 C  
 ATOM 1156 O PHEA 81151.765 0.211 -4.266 1.00 0.00 O

ATOM	1157	CB	PHE A	81153.338	2.283	-2.442	1.00	0.00	C
ATOM	1158	CG	PHE A	81154.088	2.738	-1.222	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.620	3.795	-0.458	1.00	0.00	C
ATOM	1160	CD2	PHE A	81155.262	2.108	-0.840	1.00	0.00	C
ATOM	1161	CE1	PHE A	81154.307	4.216	0.663	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.954	2.524	0.282	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.476	3.580	1.035	1.00	0.00	C
ATOM	1164	H	PHE A	81153.878	-0.147	-1.880	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.654	1.560	-1.339	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.056	1.886	-3.143	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.857	3.146	-2.878	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.706	4.293	-0.747	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.637	1.284	-1.428	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.931	5.041	1.250	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.868	2.025	0.569	1.00	0.00	H
ATOM	1172	HZ	PHE A	81156.015	3.907	1.911	1.00	0.00	H
ATOM	1173	N	VAL A	82150.279	1.680	-3.431	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.360	1.560	-4.554	1.00	0.00	C
ATOM	1175	C	VAL A	82148.457	2.783	-4.654	1.00	0.00	C
ATOM	1176	O	VAL A	82148.391	3.594	-3.730	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.483	0.299	-4.436	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.314	-0.953	-4.669	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.799	0.250	-3.079	1.00	0.00	C
ATOM	1180	H	VAL A	82150.055	2.288	-2.697	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.945	1.481	-5.459	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.719	0.344	-5.198	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.883	-0.844	-5.579	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.659	-1.808	-4.754	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.988	-1.098	-3.838	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.759	-0.772	-2.732	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.796	0.639	-3.166	1.00	0.00	H

ATOM 1188 3HG2 VAL A 82148.356 0.848 -2.373 1.00 0.00 H  
 ATOM 1189 N LYS A 83147.768 2.913 -5.780 1.00 0.00 N  
 ATOM 1190 CA LYS A 83146.872 4.040 -6.002 1.00 0.00 C  
 ATOM 1191 C LYS A 83145.593 3.895 -5.186 1.00 0.00 C  
 ATOM 1192 O LYS A 83144.905 2.877 -5.259 1.00 0.00 O  
 ATOM 1193 CB LYS A 83146.539 4.163 -7.488 1.00 0.00 C  
 ATOM 1194 CG LYS A 83147.683 4.726 -8.314 1.00 0.00 C  
 ATOM 1195 CD LYS A 83147.295 4.875 -9.778 1.00 0.00 C  
 ATOM 1196 CE LYS A 83148.101 3.940 -10.665 1.00 0.00 C  
 ATOM 1197 NZ LYS A 83147.243 3.255 -11.671 1.00 0.00 N  
 ATOM 1198 H LYS A 83147.865 2.234 -6.482 1.00 0.00 H  
 ATOM 1199 HA LYS A 83147.383 4.937 -5.685 1.00 0.00 H  
 ATOM 1200 1HB LYS A 83146.291 3.184 -7.873 1.00 0.00 H  
 ATOM 1201 2HB LYS A 83145.685 4.813 -7.604 1.00 0.00 H  
 ATOM 1202 1HG LYS A 83147.951 5.696 -7.923 1.00 0.00 H  
 ATOM 1203 2HG LYS A 83148.529 4.059 -8.239 1.00 0.00 H  
 ATOM 1204 1HD LYS A 83146.247 4.647 -9.890 1.00 0.00 H  
 ATOM 1205 2HD LYS A 83147.478 5.895 -10.085 1.00 0.00 H  
 ATOM 1206 1HE LYS A 83148.856 4.515 -11.181 1.00 0.00 H  
 ATOM 1207 2HE LYS A 83148.577 3.198 -10.043 1.00 0.00 H  
 ATOM 1208 1HZ LYS A 83146.567 2.625 -11.195 1.00 0.00 H  
 ATOM 1209 2HZ LYS A 83147.832 2.688 -12.316 1.00 0.00 H  
 ATOM 1210 3HZ LYS A 83146.716 3.956 -12.229 1.00 0.00 H  
 ATOM 1211 N LEU A 84145.285 4.925 -4.406 1.00 0.00 N  
 ATOM 1212 CA LEU A 84144.093 4.931 -3.566 1.00 0.00 C  
 ATOM 1213 C LEU A 84142.838 4.649 -4.389 1.00 0.00 C  
 ATOM 1214 O LEU A 84141.964 3.893 -3.964 1.00 0.00 O  
 ATOM 1215 CB LEU A 84143.962 6.281 -2.858 1.00 0.00 C  
 ATOM 1216 CG LEU A 84142.694 6.455 -2.019 1.00 0.00 C  
 ATOM 1217 CD1 LEU A 84142.804 5.676 -0.718 1.00 0.00 C  
 ATOM 1218 CD2 LEU A 84142.439 7.929 -1.741 1.00 0.00 C



ATOM	1219	H	LEU A	84145.878	5.706	-4.394	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.206	4.156	-2.825	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.818	6.409	-2.212	1.00	0.00	H
ATOM	1222	2HB	LEU A	84143.980	7.058	-3.607	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.850	6.066	-2.570	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84141.898	5.803	-0.145	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.646	6.044	-0.149	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.948	4.628	-0.937	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.378	8.095	-1.627	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.809	8.520	-2.565	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.948	8.218	-0.834	1.00	0.00	H
ATOM	1230	N	LYS A	85142.757	5.261	-5.565	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.609	5.075	-6.444	1.00	0.00	C
ATOM	1232	C	LYS A	85141.506	3.625	-6.914	1.00	0.00	C
ATOM	1233	O	LYS A	85140.431	3.163	-7.297	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.705	6.009	-7.652	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.906	5.733	-8.542	1.00	0.00	C
ATOM	1236	CD	LYS A	85142.926	6.656	-9.750	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.334	6.833	-10.293	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.199	7.606	-9.359	1.00	0.00	N
ATOM	1239	H	LYS A	85143.485	5.853	-5.849	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.720	5.321	-5.882	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.811	5.902	-8.247	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.773	7.028	-7.299	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.809	5.886	-7.970	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.863	4.709	-8.882	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.303	6.234	-10.524	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.537	7.621	-9.459	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.771	5.857	-10.450	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.279	7.357	-11.237	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.163	7.216	-9.359	1.00	0.00	H

ATOM 1250 2HZ LYS A 85144.816 7.555 -8.394 1.00 0.00 H  
 ATOM 1251 3HZ LYS A 85145.238 8.604 -9.652 1.00 0.00 H  
 ATOM 1252 N SER A 86142.628 2.912 -6.880 1.00 0.00 N  
 ATOM 1253 CA SER A 86142.658 1.516 -7.302 1.00 0.00 C  
 ATOM 1254 C SER A 86142.572 0.581 -6.100 1.00 0.00 C  
 ATOM 1255 O SER A 86143.096 -0.532 -6.129 1.00 0.00 O  
 ATOM 1256 CB SER A 86143.933 1.229 -8.096 1.00 0.00 C  
 ATOM 1257 OG SER A 86143.882 1.831 -9.379 1.00 0.00 O  
 ATOM 1258 H SER A 86143.455 3.334 -6.565 1.00 0.00 H  
 ATOM 1259 HA SER A 86141.803 1.345 -7.938 1.00 0.00 H  
 ATOM 1260 1HB SER A 86144.785 1.623 -7.562 1.00 0.00 H  
 ATOM 1261 2HB SER A 86144.046 0.162 -8.218 1.00 0.00 H  
 ATOM 1262 HG SER A 86143.552 2.728 -9.298 1.00 0.00 H  
 ATOM 1263 N CYSA 87141.909 1.041 -5.043 1.00 0.00 N  
 ATOM 1264 CA CYSA 87141.754 0.245 -3.831 1.00 0.00 C  
 ATOM 1265 C CYSA 87140.287 -0.085 -3.581 1.00 0.00 C  
 ATOM 1266 O CYSA 87139.398 0.455 -4.240 1.00 0.00 O  
 ATOM 1267 CB CYSA 87142.334 0.991 -2.628 1.00 0.00 C  
 ATOM 1268 SG CYSA 87144.132 0.871 -2.480 1.00 0.00 S  
 ATOM 1269 H CYSA 87141.513 1.936 -5.080 1.00 0.00 H  
 ATOM 1270 HA CYSA 87142.300 -0.678 -3.968 1.00 0.00 H  
 ATOM 1271 1HB CYSA 87142.080 2.038 -2.707 1.00 0.00 H  
 ATOM 1272 2HB CYSA 87141.902 0.590 -1.722 1.00 0.00 H  
 ATOM 1273 HG CYSA 87144.490 1.762 -2.492 1.00 0.00 H  
 ATOM 1274 N ARG A 88140.038 -0.975 -2.625 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.677 -1.376 -2.290 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.516 -1.547 -0.779 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.430 -2.015 -0.100 1.00 0.00 O  
 ATOM 1278 CB ARG A 88138.316 -2.679 -3.006 1.00 0.00 C  
 ATOM 1279 CG ARG A 88136.957 -2.642 -3.687 1.00 0.00 C  
 ATOM 1280 CD ARG A 88136.152 -3.901 -3.401 1.00 0.00 C

ATOM	1281	NE	ARG A	88136.210	-4.851	-4.511	1.00	0.00	N
ATOM	1282	CZ	ARG A	88135.562	-4.684	-5.662	1.00	0.00	C
ATOM	1283	NH1	ARG A	88134.809	-3.609	-5.860	1.00	0.00	N
ATOM	1284	NH2	ARG A	88135.669	-5.596	-6.620	1.00	0.00	N
ATOM	1285	H	ARG A	88140.789	-1.371	-2.134	1.00	0.00	H
ATOM	1286	HA	ARG A	88138.012	-0.594	-2.626	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.065	-2.882	-3.758	1.00	0.00	H
ATOM	1288	2HB	ARG A	88138.314	-3.485	-2.287	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.406	-1.788	-3.325	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.102	-2.553	-4.754	1.00	0.00	H
ATOM	1291	1HD	ARG A	88136.549	-4.374	-2.515	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.123	-3.624	-3.230	1.00	0.00	H
ATOM	1293	HE	ARG A	88136.758	-5.654	-4.392	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88134.726	-2.918	-5.142	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88134.326	-3.490	-6.727	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88136.235	-6.408	-6.476	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88135.182	-5.472	-7.484	1.00	0.00	H
ATOM	1298	N	PRO A	89137.347	-1.171	-0.232	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.076	-1.289	1.206	1.00	0.00	C
ATOM	1300	C	PRO A	89137.299	-2.706	1.721	1.00	0.00	C
ATOM	1301	O	PRO A	89136.768	-3.669	1.167	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.598	-0.903	1.328	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.324	-0.061	0.130	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.200	-0.603	-0.964	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.679	-0.600	1.779	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.990	-1.796	1.332	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.442	-0.350	2.242	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.284	-0.143	-0.145	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.578	0.967	0.338	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.679	-1.369	-1.520	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.518	0.192	-1.622	1.00	0.00	H

ATOM	1312	N	ASPA	90138.086	-2.827	2.785	1.00	0.00	N
ATOM	1313	CA	ASPA	90138.377	-4.128	3.376	1.00	0.00	C
ATOM	1314	C	ASPA	90137.565	-4.341	4.650	1.00	0.00	C
ATOM	1315	O	ASPA	90137.724	-3.612	5.629	1.00	0.00	O
ATOM	1316	CB	ASPA	90139.871	-4.249	3.684	1.00	0.00	C
ATOM	1317	CG	ASPA	90140.326	-5.692	3.778	1.00	0.00	C
ATOM	1318	OD1	ASPA	90141.391	-5.940	4.383	1.00	0.00	O
ATOM	1319	OD2	ASPA	90139.619	-6.574	3.247	1.00	0.00	O
ATOM	1320	H	ASPA	90138.479	-2.022	3.183	1.00	0.00	H
ATOM	1321	HA	ASPA	90138.104	-4.887	2.658	1.00	0.00	H
ATOM	1322	1HB	ASPA	90140.433	-3.763	2.900	1.00	0.00	H
ATOM	1323	2HB	ASPA	90140.078	-3.763	4.626	1.00	0.00	H
ATOM	1324	N	SERA	91136.693	-5.344	4.629	1.00	0.00	N
ATOM	1325	CA	SERA	91135.856	-5.653	5.782	1.00	0.00	C
ATOM	1326	C	SERA	91136.446	-6.804	6.591	1.00	0.00	C
ATOM	1327	O	SERA	91135.716	-7.595	7.188	1.00	0.00	O
ATOM	1328	CB	SERA	91134.438	-6.007	5.329	1.00	0.00	C
ATOM	1329	OG	SERA	91133.484	-5.649	6.314	1.00	0.00	O
ATOM	1330	H	SERA	91136.611	-5.890	3.819	1.00	0.00	H
ATOM	1331	HA	SERA	91135.816	-4.774	6.407	1.00	0.00	H
ATOM	1332	1HB	SERA	91134.211	-5.476	4.417	1.00	0.00	H
ATOM	1333	2HB	SERA	91134.375	-7.071	5.152	1.00	0.00	H
ATOM	1334	HG	SERA	91133.237	-4.729	6.201	1.00	0.00	H
ATOM	1335	N	ARGA	92137.772	-6.891	6.606	1.00	0.00	N
ATOM	1336	CA	ARGA	92138.461	-7.945	7.342	1.00	0.00	C
ATOM	1337	C	ARGA	92138.240	-7.794	8.843	1.00	0.00	C
ATOM	1338	O	ARGA	92138.202	-8.781	9.578	1.00	0.00	O
ATOM	1339	CB	ARGA	92139.957	-7.921	7.029	1.00	0.00	C
ATOM	1340	CG	ARGA	92140.331	-8.699	5.777	1.00	0.00	C
ATOM	1341	CD	ARGA	92141.095	-9.970	6.115	1.00	0.00	C
ATOM	1342	NE	ARGA	92140.212	-11.130	6.208	1.00	0.00	N

ATOM 1343 CZ ARG A 92140.636 -12.390 6.142 1.00 0.00 C  
 ATOM 1344 NH1 ARG A 92141.927 -12.656 5.982 1.00 0.00 N  
 ATOM 1345 NH2 ARG A 92139.767 -13.388 6.238 1.00 0.00 N  
 ATOM 1346 H ARG A 92138.301 -6.231 6.111 1.00 0.00 H  
 ATOM 1347 HA ARG A 92138.051 -8.893 7.024 1.00 0.00 H  
 ATOM 1348 1HB ARG A 92140.268 -6.895 6.895 1.00 0.00 H  
 ATOM 1349 2HB ARG A 92140.495 -8.343 7.864 1.00 0.00 H  
 ATOM 1350 1HG ARG A 92139.428 -8.964 5.248 1.00 0.00 H  
 ATOM 1351 2HG ARG A 92140.949 -8.075 5.148 1.00 0.00 H  
 ATOM 1352 1HD ARG A 92141.829 -10.149 5.343 1.00 0.00 H  
 ATOM 1353 2HD ARG A 92141.596 -9.832 7.062 1.00 0.00 H  
 ATOM 1354 HE ARG A 92139.254 -10.962 6.327 1.00 0.00 H  
 ATOM 1355 1HH1 ARG A 92142.588 -11.910 5.910 1.00 0.00 H  
 ATOM 1356 2HH1 ARG A 92142.238 -13.606 5.934 1.00 0.00 H  
 ATOM 1357 1HH2 ARG A 92138.794 -13.193 6.359 1.00 0.00 H  
 ATOM 1358 2HH2 ARG A 92140.085 -14.335 6.188 1.00 0.00 H  
 ATOM 1359 N PHE A 93138.095 -6.552 9.292 1.00 0.00 N  
 ATOM 1360 CA PHE A 93137.878 -6.270 10.707 1.00 0.00 C  
 ATOM 1361 C PHE A 93136.754 -5.258 10.894 1.00 0.00 C  
 ATOM 1362 O PHE A 93136.768 -4.466 11.837 1.00 0.00 O  
 ATOM 1363 CB PHE A 93139.165 -5.746 11.347 1.00 0.00 C  
 ATOM 1364 CG PHE A 93140.198 -6.812 11.578 1.00 0.00 C  
 ATOM 1365 CD1 PHE A 93140.387 -7.349 12.840 1.00 0.00 C  
 ATOM 1366 CD2 PHE A 93140.980 -7.275 10.532 1.00 0.00 C  
 ATOM 1367 CE1 PHE A 93141.338 -8.329 13.057 1.00 0.00 C  
 ATOM 1368 CE2 PHE A 93141.932 -8.255 10.741 1.00 0.00 C  
 ATOM 1369 CZ PHE A 93142.111 -8.783 12.005 1.00 0.00 C  
 ATOM 1370 H PHE A 93138.135 -5.807 8.657 1.00 0.00 H  
 ATOM 1371 HA PHE A 93137.598 -7.195 11.189 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93139.599 -4.997 10.703 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93138.927 -5.299 12.301 1.00 0.00 H

ATOM	1374	HD1 PHE A	93139.783	-6.996	13.663	1.00	0.00	H
ATOM	1375	HD2 PHE A	93140.841	-6.863	9.543	1.00	0.00	H
ATOM	1376	HE1 PHE A	93141.476	-8.739	14.046	1.00	0.00	H
ATOM	1377	HE2 PHE A	93142.535	-8.607	9.918	1.00	0.00	H
ATOM	1378	HZ PHE A	93142.854	-9.548	12.171	1.00	0.00	H
ATOM	1379	N ALA A	94135.781	-5.288	9.989	1.00	0.00	N
ATOM	1380	CA ALA A	94134.648	-4.371	10.055	1.00	0.00	C
ATOM	1381	C ALA A	94133.700	-4.751	11.186	1.00	0.00	C
ATOM	1382	O ALA A	94133.394	-5.927	11.385	1.00	0.00	O
ATOM	1383	CB ALA A	94133.907	-4.352	8.726	1.00	0.00	C
ATOM	1384	H ALA A	94135.825	-5.940	9.260	1.00	0.00	H
ATOM	1385	HA ALA A	94135.033	-3.379	10.239	1.00	0.00	H
ATOM	1386	1HB ALA A	94133.156	-3.578	8.744	1.00	0.00	H
ATOM	1387	2HB ALA A	94133.435	-5.310	8.564	1.00	0.00	H
ATOM	1388	3HB ALA A	94134.607	-4.157	7.927	1.00	0.00	H
ATOM	1389	N SER A	95133.237	-3.748	11.925	1.00	0.00	N
ATOM	1390	CA SER A	95132.321	-3.978	13.038	1.00	0.00	C
ATOM	1391	C SER A	95130.877	-4.031	12.551	1.00	0.00	C
ATOM	1392	O SER A	95130.505	-3.343	11.600	1.00	0.00	O
ATOM	1393	CB SER A	95132.478	-2.878	14.088	1.00	0.00	C
ATOM	1394	OG SER A	95133.833	-2.484	14.216	1.00	0.00	O
ATOM	1395	H SER A	95133.515	-2.833	11.717	1.00	0.00	H
ATOM	1396	HA SER A	95132.573	-4.928	13.483	1.00	0.00	H
ATOM	1397	1HB SER A	95131.892	-2.019	13.797	1.00	0.00	H
ATOM	1398	2HB SER A	95132.129	-3.244	15.043	1.00	0.00	H
ATOM	1399	HG SER A	95134.359	-3.233	14.506	1.00	0.00	H
ATOM	1400	N LEU A	96130.066	-4.852	13.209	1.00	0.00	N
ATOM	1401	CA LEU A	96128.660	-4.995	12.845	1.00	0.00	C
ATOM	1402	C LEU A	96127.765	-4.247	13.824	1.00	0.00	C
ATOM	1403	O LEU A	96127.065	-3.306	13.451	1.00	0.00	O
ATOM	1404	CB LEU A	96128.270	-6.474	12.803	1.00	0.00	C

ATOM 1405 CG LEU A 96126.904 -6.765 12.181 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96127.029 -6.940 10.676 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96126.283 -8.001 12.814 1.00 0.00 C  
 ATOM 1408 H LEU A 96130.420 -5.375 13.959 1.00 0.00 H  
 ATOM 1409 HA LEU A 96128.529 -4.570 11.865 1.00 0.00 H  
 ATOM 1410 IHB LEU A 96129.021 -7.007 12.238 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96128.267 -6.852 13.814 1.00 0.00 H  
 ATOM 1412 HG LEU A 96126.245 -5.928 12.365 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96127.596 -7.834 10.463 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96127.536 -6.085 10.254 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96126.045 -7.026 10.239 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96126.517 -8.868 12.214 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96125.211 -7.879 12.867 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96126.681 -8.133 13.809 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.795 -4.677 15.078 1.00 0.00 N  
 ATOM 1420 CA GLN A 97126.988 -4.054 16.120 1.00 0.00 C  
 ATOM 1421 C GLN A 97125.500 -4.158 15.795 1.00 0.00 C  
 ATOM 1422 O GLN A 97124.887 -3.195 15.336 1.00 0.00 O  
 ATOM 1423 CB GLN A 97127.383 -2.585 16.292 1.00 0.00 C  
 ATOM 1424 CG GLN A 97128.660 -2.387 17.092 1.00 0.00 C  
 ATOM 1425 CD GLN A 97128.551 -2.923 18.506 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97127.475 -3.328 18.947 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97129.668 -2.927 19.224 1.00 0.00 N  
 ATOM 1428 H GLN A 97128.375 -5.431 15.307 1.00 0.00 H  
 ATOM 1429 HA GLN A 97127.180 -4.578 17.045 1.00 0.00 H  
 ATOM 1430 IHB GLN A 97127.523 -2.147 15.316 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97126.583 -2.066 16.799 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97129.467 -2.901 16.591 1.00 0.00 H  
 ATOM 1433 2HG GLN A 97128.881 -1.331 17.137 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97130.488 -2.589 18.808 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97129.626 -3.268 20.142 1.00 0.00 H

ATOM 1436 N PRO A 98124.898 -5.338 16.027 1.00 0.00 N  
 ATOM 1437 CA PRO A 98123.475 -5.564 15.756 1.00 0.00 C  
 ATOM 1438 C PRO A 98122.587 -4.511 16.408 1.00 0.00 C  
 ATOM 1439 O PRO A 98122.406 -4.502 17.625 1.00 0.00 O  
 ATOM 1440 CB PRO A 98123.209 -6.941 16.370 1.00 0.00 C  
 ATOM 1441 CG PRO A 98124.533 -7.622 16.362 1.00 0.00 C  
 ATOM 1442 CD PRO A 98125.556 -6.540 16.573 1.00 0.00 C  
 ATOM 1443 HA PRO A 98123.275 -5.595 14.695 1.00 0.00 H  
 ATOM 1444 1HB PRO A 98122.830 -6.823 17.374 1.00 0.00 H  
 ATOM 1445 2HB PRO A 98122.489 -7.474 15.767 1.00 0.00 H  
 ATOM 1446 1HG PRO A 98124.581 -8.344 17.163 1.00 0.00 H  
 ATOM 1447 2HG PRO A 98124.692 -8.107 15.410 1.00 0.00 H  
 ATOM 1448 1HD PRO A 98125.767 -6.421 17.625 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98126.462 -6.764 16.028 1.00 0.00 H  
 ATOM 1450 N SER A 99122.033 -3.622 15.588 1.00 0.00 N  
 ATOM 1451 CA SER A 99121.163 -2.563 16.086 1.00 0.00 C  
 ATOM 1452 C SER A 99120.011 -2.306 15.120 1.00 0.00 C  
 ATOM 1453 O SER A 99118.848 -2.269 15.521 1.00 0.00 O  
 ATOM 1454 CB SER A 99121.962 -1.275 16.299 1.00 0.00 C  
 ATOM 1455 OG SER A 99122.453 -1.192 17.625 1.00 0.00 O  
 ATOM 1456 H SER A 99122.215 -3.680 14.627 1.00 0.00 H  
 ATOM 1457 HA SER A 99120.757 -2.884 17.034 1.00 0.00 H  
 ATOM 1458 1HB SER A 99122.799 -1.257 15.617 1.00 0.00 H  
 ATOM 1459 2HB SER A 99121.325 -0.423 16.110 1.00 0.00 H  
 ATOM 1460 HG SER A 99123.072 -0.463 17.693 1.00 0.00 H  
 ATOM 1461 N GLY A 100120.343 -2.127 13.845 1.00 0.00 N  
 ATOM 1462 CA GLY A 100119.326 -1.877 12.843 1.00 0.00 C  
 ATOM 1463 C GLY A 100119.250 -0.413 12.447 1.00 0.00 C  
 ATOM 1464 O GLY A 100120.253 0.297 12.497 1.00 0.00 O  
 ATOM 1465 H GLY A 100121.287 -2.168 13.584 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100119.548 -2.464 11.965 1.00 0.00 H



ATOM 1467 2HA GLY A 100118.367 -2.182 13.234 1.00 0.00 H  
 ATOM 1468 N PRO A 101118.061 0.071 12.047 1.00 0.00 N  
 ATOM 1469 CA PRO A 101117.873 1.468 11.642 1.00 0.00 C  
 ATOM 1470 C PRO A 101117.984 2.431 12.820 1.00 0.00 C  
 ATOM 1471 O PRO A 101118.008 2.012 13.977 1.00 0.00 O  
 ATOM 1472 CB PRO A 101116.454 1.486 11.070 1.00 0.00 C  
 ATOM 1473 CG PRO A 101115.761 0.350 11.740 1.00 0.00 C  
 ATOM 1474 CD PRO A 101116.810 -0.705 11.956 1.00 0.00 C  
 ATOM 1475 HA PRO A 101118.577 1.756 10.876 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101115.982 2.430 11.300 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101116.492 1.347 10.000 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101115.355 0.675 12.686 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101114.975 -0.028 11.103 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101116.621 -1.241 12.874 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101116.839 -1.386 11.119 1.00 0.00 H  
 ATOM 1482 N SER A 102118.051 3.723 12.516 1.00 0.00 N  
 ATOM 1483 CA SER A 102118.160 4.747 13.549 1.00 0.00 C  
 ATOM 1484 C SER A 102116.884 5.579 13.625 1.00 0.00 C  
 ATOM 1485 O SER A 102116.301 5.744 14.697 1.00 0.00 O  
 ATOM 1486 CB SER A 102119.359 5.655 13.274 1.00 0.00 C  
 ATOM 1487 OG SER A 102120.529 5.162 13.906 1.00 0.00 O  
 ATOM 1488 H SER A 102118.028 3.994 11.574 1.00 0.00 H  
 ATOM 1489 HA SER A 102118.307 4.248 14.496 1.00 0.00 H  
 ATOM 1490 1HB SER A 102119.535 5.703 12.209 1.00 0.00 H  
 ATOM 1491 2HB SER A 102119.152 6.646 13.648 1.00 0.00 H  
 ATOM 1492 HG SER A 102120.966 5.877 14.372 1.00 0.00 H  
 ATOM 1493 N SER A 103116.457 6.103 12.480 1.00 0.00 N  
 ATOM 1494 CA SER A 103115.250 6.919 12.416 1.00 0.00 C  
 ATOM 1495 C SER A 103114.308 6.412 11.330 1.00 0.00 C  
 ATOM 1496 O SER A 103113.126 6.175 11.581 1.00 0.00 O  
 ATOM 1497 CB SER A 103115.612 8.382 12.152 1.00 0.00 C

ATOM 1498 OG SERA 103114.760 9.256 12.872 1.00 0.00 O  
 ATOM 1499 H SERA 103116.965 5.936 11.659 1.00 0.00 H  
 ATOM 1500 HA SERA 103114.751 6.848 13.371 1.00 0.00 H  
 ATOM 1501 1HB SERA 103116.631 8.559 12.459 1.00 0.00 H  
 ATOM 1502 2HB SERA 103115.513 8.589 11.096 1.00 0.00 H  
 ATOM 1503 HG SERA 103114.880 10.154 12.553 1.00 0.00 H  
 ATOM 1504 N GLY A 104114.838 6.248 10.122 1.00 0.00 N  
 ATOM 1505 CA GLY A 104114.030 5.770 9.015 1.00 0.00 C  
 ATOM 1506 C GLY A 104114.428 4.377 8.566 1.00 0.00 C  
 ATOM 1507 O GLY A 104113.527 3.529 8.397 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104115.639 4.137 8.382 1.00 0.00 O  
 ATOM 1509 H GLY A 104115.786 6.453 9.982 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104112.994 5.756 9.319 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104114.141 6.450 8.183 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

#### Three-Dimensional Structure Coordinate Table 12

ATOM 1 N GLY A 1114.316 12.945 11.802 1.00 0.00 N  
 ATOM 2 CA GLY A 1115.335 13.468 10.850 1.00 0.00 C  
 ATOM 3 C GLY A 1116.588 12.617 10.816 1.00 0.00 C  
 ATOM 4 O GLY A 1117.700 13.130 10.948 1.00 0.00 O  
 ATOM 5 1H GLY A 1114.365 13.468 12.701 1.00 0.00 H  
 ATOM 6 2H GLY A 1114.488 11.937 11.991 1.00 0.00 H  
 ATOM 7 3H GLY A 1113.363 13.054 11.401 1.00 0.00 H  
 ATOM 8 1HA GLY A 1114.905 13.496 9.860 1.00 0.00 H  
 ATOM 9 2HA GLY A 1115.603 14.472 11.144 1.00 0.00 H  
 ATOM10 N SERA 2116.410 11.312 10.639 1.00 0.00 N  
 ATOM11 CA SERA 2117.536 10.386 10.588 1.00 0.00 C  
 ATOM12 C SERA 2118.226 10.442 9.227 1.00 0.00 C  
 ATOM13 O SERA 2117.567 10.471 8.188 1.00 0.00 O

ATOM14	CB	SER A	2117.064	8.960	10.874	1.00	0.00	C
ATOM15	OG	SER A	2116.474	8.866	12.159	1.00	0.00	O
ATOM16	H	SER A	2115.500	10.962	10.539	1.00	0.00	H
ATOM17	HA	SER A	2118.243	10.682	11.348	1.00	0.00	H
ATOM18	1HB	SER A	2116.334	8.668	10.134	1.00	0.00	H
ATOM19	2HB	SER A	2117.910	8.289	10.830	1.00	0.00	H
ATOM20	HG	SER A	2116.087	7.995	12.271	1.00	0.00	H
ATOM21	N	SER A	3119.554	10.458	9.243	1.00	0.00	N
ATOM22	CA	SER A	3120.332	10.510	8.011	1.00	0.00	C
ATOM23	C	SER A	3120.013	11.775	7.220	1.00	0.00	C
ATOM24	O	SER A	3118.997	12.427	7.457	1.00	0.00	O
ATOM25	CB	SER A	3120.053	9.274	7.154	1.00	0.00	C
ATOM26	OG	SER A	3121.235	8.811	6.525	1.00	0.00	O
ATOM27	H	SER A	3120.022	10.433	10.103	1.00	0.00	H
ATOM28	HA	SER A	3121.378	10.522	8.280	1.00	0.00	H
ATOM29	1HB	SER A	3119.660	8.486	7.779	1.00	0.00	H
ATOM30	2HB	SER A	3119.328	9.524	6.392	1.00	0.00	H
ATOM31	HG	SER A	3121.720	9.557	6.164	1.00	0.00	H
ATOM32	N	GLY A	4120.889	12.115	6.281	1.00	0.00	N
ATOM33	CA	GLY A	4120.684	13.301	5.469	1.00	0.00	C
ATOM34	C	GLY A	4120.052	12.984	4.129	1.00	0.00	C
ATOM35	O	GLY A	4119.110	13.655	3.705	1.00	0.00	O
ATOM36	H	GLY A	4121.683	11.557	6.137	1.00	0.00	H
ATOM37	1HA	GLY A	4120.041	13.983	6.006	1.00	0.00	H
ATOM38	2HA	GLY A	4121.637	13.778	5.301	1.00	0.00	H
ATOM39	N	SER A	5120.569	11.960	3.460	1.00	0.00	N
ATOM40	CA	SER A	5120.050	11.555	2.158	1.00	0.00	C
ATOM41	C	SER A	5120.184	12.684	1.144	1.00	0.00	C
ATOM42	O	SER A	5119.259	13.471	0.949	1.00	0.00	O
ATOM43	CB	SER A	5118.584	11.134	2.280	1.00	0.00	C
ATOM44	OG	SER A	5118.066	10.720	1.027	1.00	0.00	O

ATOM45 H SER A 5121.319 11.463 3.849 1.00 0.00 H  
 ATOM46 HA SER A 5120.630 10.710 1.819 1.00 0.00 H  
 ATOM47 1HB SER A 5118.503 10.314 2.977 1.00 0.00 H  
 ATOM48 2HB SER A 5118.001 11.970 2.639 1.00 0.00 H  
 ATOM49 HG SER A 5118.141 9.766 0.950 1.00 0.00 H  
 ATOM50 N SER A 6121.344 12.757 0.497 1.00 0.00 N  
 ATOM51 CA SER A 6121.600 13.791 -0.499 1.00 0.00 C  
 ATOM52 C SER A 6122.490 13.259 -1.618 1.00 0.00 C  
 ATOM53 O SER A 6122.136 13.333 -2.794 1.00 0.00 O  
 ATOM54 CB SER A 6122.256 15.008 0.156 1.00 0.00 C  
 ATOM55 OG SER A 6123.481 14.656 0.775 1.00 0.00 O  
 ATOM56 H SER A 6122.043 12.101 0.695 1.00 0.00 H  
 ATOM57 HA SER A 6120.651 14.088 -0.920 1.00 0.00 H  
 ATOM58 1HB SER A 6122.451 15.757 -0.597 1.00 0.00 H  
 ATOM59 2HB SER A 6121.592 15.414 0.903 1.00 0.00 H  
 ATOM60 HG SER A 6123.749 15.356 1.375 1.00 0.00 H  
 ATOM61 N GLY A 7123.647 12.724 -1.242 1.00 0.00 N  
 ATOM62 CA GLY A 7124.570 12.187 -2.226 1.00 0.00 C  
 ATOM63 C GLY A 7124.390 10.697 -2.437 1.00 0.00 C  
 ATOM64 O GLY A 7124.507 9.911 -1.497 1.00 0.00 O  
 ATOM65 H GLY A 7123.876 12.693 -0.291 1.00 0.00 H  
 ATOM66 1HA GLY A 7124.412 12.695 -3.166 1.00 0.00 H  
 ATOM67 2HA GLY A 7125.580 12.374 -1.894 1.00 0.00 H  
 ATOM68 N LEU A 8124.104 10.307 -3.675 1.00 0.00 N  
 ATOM69 CA LEU A 8123.908 8.901 -4.008 1.00 0.00 C  
 ATOM70 C LEU A 8125.039 8.389 -4.894 1.00 0.00 C  
 ATOM71 O LEU A 8124.817 7.581 -5.796 1.00 0.00 O  
 ATOM72 CB LEU A 8122.563 8.706 -4.712 1.00 0.00 C  
 ATOM73 CG LEU A 8121.376 9.401 -4.044 1.00 0.00 C  
 ATOM74 CD1 LEU A 8120.361 9.844 -5.086 1.00 0.00 C  
 ATOM75 CD2 LEU A 8120.727 8.480 -3.022 1.00 0.00 C

ATOM76 H LEU A 8124.024 10.981 -4.382 1.00 0.00 H  
 ATOM77 HA LEU A 8123.906 8.339 -3.086 1.00 0.00 H  
 ATOM78 1HB LEU A 8122.652 9.080 -5.721 1.00 0.00 H  
 ATOM79 2HB LEU A 8122.354 7.647 -4.755 1.00 0.00 H  
 ATOM80 HG LEU A 8121.727 10.282 -3.526 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8120.435 9.206 -5.954 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8120.560 10.866 -5.372 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8119.366 9.773 -4.672 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8120.372 9.063 -2.185 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8121.452 7.758 -2.676 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8119.895 7.964 -3.479 1.00 0.00 H  
 ATOM87 N ALAA 9126.252 8.865 -4.630 1.00 0.00 N  
 ATOM88 CA ALAA 9127.418 8.456 -5.403 1.00 0.00 C  
 ATOM89 C ALAA 9128.707 8.716 -4.631 1.00 0.00 C  
 ATOM90 O ALAA 9129.394 9.710 -4.866 1.00 0.00 O  
 ATOM91 CB ALAA 9127.446 9.182 -6.740 1.00 0.00 C  
 ATOM92 H ALAA 9126.364 9.507 -3.899 1.00 0.00 H  
 ATOM93 HA ALAA 9127.334 7.396 -5.598 1.00 0.00 H  
 ATOM94 1HB ALAA 9128.471 9.348 -7.038 1.00 0.00 H  
 ATOM95 2HB ALAA 9126.940 10.132 -6.644 1.00 0.00 H  
 ATOM96 3HB ALAA 9126.947 8.582 -7.486 1.00 0.00 H  
 ATOM97 N META 10129.030 7.815 -3.707 1.00 0.00 N  
 ATOM98 CA META 10130.237 7.947 -2.899 1.00 0.00 C  
 ATOM99 C META 10130.223 9.252 -2.106 1.00 0.00 C  
 ATOM 100 O META 10130.923 10.204 -2.449 1.00 0.00 O  
 ATOM 101 CB META 10131.480 7.891 -3.790 1.00 0.00 C  
 ATOM 102 CG META 10131.435 6.782 -4.829 1.00 0.00 C  
 ATOM 103 SD META 10130.940 7.377 -6.458 1.00 0.00 S  
 ATOM 104 CE META 10132.189 6.616 -7.491 1.00 0.00 C  
 ATOM 105 H META 10128.441 7.044 -3.566 1.00 0.00 H  
 ATOM 106 HA META 10130.263 7.118 -2.207 1.00 0.00 H

ATOM	107	1HB	MET A	10131.583	8.834	-4.305	1.00	0.00	H
ATOM	108	2HB	MET A	10132.348	7.735	-3.166	1.00	0.00	H
ATOM	109	1HG	MET A	10132.417	6.341	-4.907	1.00	0.00	H
ATOM	110	2HG	MET A	10130.730	6.032	-4.504	1.00	0.00	H
ATOM	111	1HE	MET A	10132.930	7.353	-7.762	1.00	0.00	H
ATOM	112	2HE	MET A	10131.728	6.224	-8.385	1.00	0.00	H
ATOM	113	3HE	MET A	10132.664	5.812	-6.948	1.00	0.00	H
ATOM	114	N	PRO A	11129.419	9.313	-1.030	1.00	0.00	N
ATOM	115	CA	PRO A	11129.317	10.509	-0.189	1.00	0.00	C
ATOM	116	C	PRO A	11130.665	10.921	0.403	1.00	0.00	C
ATOM	117	O	PRO A	11131.039	12.093	0.349	1.00	0.00	O
ATOM	118	CB	PRO A	11128.344	10.104	0.923	1.00	0.00	C
ATOM	119	CG	PRO A	11127.610	8.919	0.393	1.00	0.00	C
ATOM	120	CD	PRO A	11128.551	8.225	-0.552	1.00	0.00	C
ATOM	121	HA	PRO A	11128.906	11.341	-0.742	1.00	0.00	H
ATOM	122	1HB	PRO A	11128.896	9.859	1.817	1.00	0.00	H
ATOM	123	2HB	PRO A	11127.669	10.922	1.127	1.00	0.00	H
ATOM	124	1HG	PRO A	11127.346	8.260	1.205	1.00	0.00	H
ATOM	125	2HG	PRO A	11126.723	9.241	-0.132	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.124	7.473	-0.030	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.004	7.781	-1.371	1.00	0.00	H
ATOM	128	N	PRO A	12131.421	9.964	0.975	1.00	0.00	N
ATOM	129	CA	PRO A	12132.731	10.252	1.568	1.00	0.00	C
ATOM	130	C	PRO A	12133.680	10.909	0.572	1.00	0.00	C
ATOM	131	O	PRO A	12134.645	11.568	0.959	1.00	0.00	O
ATOM	132	CB	PRO A	12133.259	8.873	1.974	1.00	0.00	C
ATOM	133	CG	PRO A	12132.046	8.020	2.103	1.00	0.00	C
ATOM	134	CD	PRO A	12131.069	8.536	1.086	1.00	0.00	C
ATOM	135	HA	PRO A	12132.641	10.878	2.443	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.925	8.500	1.210	1.00	0.00	H
ATOM	137	2HB	PRO A	12133.788	8.949	2.912	1.00	0.00	H

ATOM	138	1HG	PRO A	12132.296	6.989	1.894	1.00	0.00	H
ATOM	139	2HG	PRO A	12131.635	8.112	3.098	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.204	8.030	0.141	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.058	8.413	1.440	1.00	0.00	H
ATOM	142	N	GLY A	13133.399	10.723	-0.715	1.00	0.00	N
ATOM	143	CA	GLY A	13134.237	11.303	-1.749	1.00	0.00	C
ATOM	144	C	GLY A	13134.875	10.250	-2.634	1.00	0.00	C
ATOM	145	O	GLY A	13135.166	10.506	-3.802	1.00	0.00	O
ATOM	146	H	GLY A	13132.617	10.187	-0.965	1.00	0.00	H
ATOM	147	1HA	GLY A	13133.634	11.955	-2.362	1.00	0.00	H
ATOM	148	2HA	GLY A	13135.017	11.885	-1.281	1.00	0.00	H
ATOM	149	N	ASN A	14135.094	9.064	-2.076	1.00	0.00	N
ATOM	150	CA	ASN A	14135.701	7.967	-2.821	1.00	0.00	C
ATOM	151	C	ASN A	14134.738	6.790	-2.940	1.00	0.00	C
ATOM	152	O	ASN A	14134.497	6.279	-4.033	1.00	0.00	O
ATOM	153	CB	ASN A	14136.994	7.516	-2.142	1.00	0.00	C
ATOM	154	CG	ASN A	14138.155	8.448	-2.429	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.479	8.716	-3.586	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.789	8.947	-1.375	1.00	0.00	N
ATOM	157	H	ASN A	14134.839	8.921	-1.140	1.00	0.00	H
ATOM	158	HA	ASN A	14135.933	8.328	-3.812	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.840	7.483	-1.073	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.254	6.528	-2.494	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.476	8.690	-0.482	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.542	9.554	-1.532	1.00	0.00	H
ATOM	163	N	SER A	15134.190	6.364	-1.805	1.00	0.00	N
ATOM	164	CA	SER A	15133.254	5.248	-1.782	1.00	0.00	C
ATOM	165	C	SER A	15132.700	5.032	-0.376	1.00	0.00	C
ATOM	166	O	SER A	15131.490	5.082	-0.160	1.00	0.00	O
ATOM	167	CB	SER A	15133.937	3.971	-2.275	1.00	0.00	C
ATOM	168	OG	SER A	15133.013	2.899	-2.362	1.00	0.00	O

ATOM	169	H	SER A	15134.422	6.812	-0.966	1.00	0.00	H
ATOM	170	HA	SER A	15132.436	5.487	-2.445	1.00	0.00	H
ATOM	171	1HB	SER A	15134.358	4.145	-3.254	1.00	0.00	H
ATOM	172	2HB	SER A	15134.723	3.698	-1.588	1.00	0.00	H
ATOM	173	HG	SER A	15133.116	2.455	-3.207	1.00	0.00	H
ATOM	174	N	HIS A	16133.596	4.791	0.576	1.00	0.00	N
ATOM	175	CA	HIS A	16133.197	4.567	1.960	1.00	0.00	C
ATOM	176	C	HIS A	16134.022	5.432	2.909	1.00	0.00	C
ATOM	177	O	HIS A	16133.481	6.066	3.815	1.00	0.00	O
ATOM	178	CB	HIS A	16133.358	3.091	2.327	1.00	0.00	C
ATOM	179	CG	HIS A	16132.209	2.238	1.892	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.498	1.433	2.757	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.644	2.066	0.673	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.548	0.802	2.089	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.615	1.169	0.824	1.00	0.00	N
ATOM	184	H	HIS A	16134.547	4.763	0.342	1.00	0.00	H
ATOM	185	HA	HIS A	16132.158	4.842	2.055	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.253	2.706	1.861	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.452	3.002	3.400	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.666	1.337	3.718	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.948	2.544	-0.247	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.836	0.106	2.509	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.972	0.918	0.128	1.00	0.00	H
ATOM	192	N	GLY A	17135.334	5.452	2.696	1.00	0.00	N
ATOM	193	CA	GLY A	17136.211	6.241	3.540	1.00	0.00	C
ATOM	194	C	GLY A	17137.638	5.732	3.528	1.00	0.00	C
ATOM	195	O	GLY A	17138.205	5.426	4.577	1.00	0.00	O
ATOM	196	H	GLY A	17135.708	4.926	1.958	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.202	7.263	3.194	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.839	6.211	4.553	1.00	0.00	H
ATOM	199	N	LEU A	18138.222	5.640	2.337	1.00	0.00	N



ATOM	200	CA	LEU A	18139.592	5.164	2.192	1.00	0.00	C
ATOM	201	C	LEU A	18140.589	6.244	2.598	1.00	0.00	C
ATOM	202	O	LEU A	18140.918	7.129	1.808	1.00	0.00	O
ATOM	203	CB	LEU A	18139.853	4.729	0.748	1.00	0.00	C
ATOM	204	CG	LEU A	18138.917	3.640	0.221	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.110	3.449	-1.275	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.152	2.333	0.963	1.00	0.00	C
ATOM	207	H	LEU A	18137.719	5.899	1.537	1.00	0.00	H
ATOM	208	HA	LEU A	18139.719	4.312	2.843	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.759	5.596	0.111	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.867	4.364	0.682	1.00	0.00	H
ATOM	211	HG	LEU A	18137.894	3.943	0.389	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.533	4.346	-1.702	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.156	3.245	-1.738	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.780	2.619	-1.448	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.819	1.708	0.388	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.209	1.823	1.100	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.593	2.540	1.926	1.00	0.00	H
ATOM	218	N	GLU A	19141.068	6.165	3.835	1.00	0.00	N
ATOM	219	CA	GLU A	19142.029	7.136	4.347	1.00	0.00	C
ATOM	220	C	GLU A	19143.037	6.466	5.275	1.00	0.00	C
ATOM	221	O	GLU A	19142.923	5.278	5.577	1.00	0.00	O
ATOM	222	CB	GLU A	19141.303	8.260	5.089	1.00	0.00	C
ATOM	223	CG	GLU A	19140.301	7.762	6.117	1.00	0.00	C
ATOM	224	CD	GLU A	19140.305	8.594	7.385	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.932	8.163	8.375	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.680	9.675	7.387	1.00	0.00	O
ATOM	227	H	GLU A	19140.769	5.436	4.418	1.00	0.00	H
ATOM	228	HA	GLU A	19142.557	7.556	3.504	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.034	8.870	5.597	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.776	8.869	4.369	1.00	0.00	H

ATOM	231	1HG	GLU A	19139.313	7.798	5.684	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.544	6.741	6.373	1.00	0.00	H
ATOM	233	N	VAL A	20144.023	7.236	5.725	1.00	0.00	N
ATOM	234	CA	VAL A	20145.050	6.716	6.619	1.00	0.00	C
ATOM	235	C	VAL A	20144.436	6.165	7.900	1.00	0.00	C
ATOM	236	O	VAL A	20143.738	6.876	8.623	1.00	0.00	O
ATOM	237	CB	VAL A	20146.080	7.803	6.983	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.238	7.202	7.764	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.580	8.506	5.730	1.00	0.00	C
ATOM	240	H	VAL A	20144.060	8.176	5.449	1.00	0.00	H
ATOM	241	HA	VAL A	20145.567	5.918	6.106	1.00	0.00	H
ATOM	242	HB	VAL A	20145.593	8.535	7.611	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.403	6.185	7.440	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.005	7.210	8.819	1.00	0.00	H
ATOM	245	3HG1	VAL A	20148.132	7.784	7.589	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.840	7.770	4.984	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.451	9.097	5.972	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.804	9.151	5.346	1.00	0.00	H
ATOM	249	N	GLY A	21144.699	4.891	8.176	1.00	0.00	N
ATOM	250	CA	GLY A	21144.164	4.265	9.371	1.00	0.00	C
ATOM	251	C	GLY A	21143.115	3.216	9.056	1.00	0.00	C
ATOM	252	O	GLY A	21142.936	2.260	9.811	1.00	0.00	O
ATOM	253	H	GLY A	21145.261	4.373	7.564	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.973	3.798	9.913	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.719	5.026	9.995	1.00	0.00	H
ATOM	256	N	SER A	22142.420	3.395	7.938	1.00	0.00	N
ATOM	257	CA	SER A	22141.382	2.457	7.523	1.00	0.00	C
ATOM	258	C	SER A	22141.973	1.329	6.683	1.00	0.00	C
ATOM	259	O	SER A	22143.052	1.470	6.109	1.00	0.00	O
ATOM	260	CB	SER A	22140.295	3.184	6.731	1.00	0.00	C
ATOM	261	OG	SER A	22139.823	4.320	7.435	1.00	0.00	O

ATOM	262	H	SER A	22142.608	4.177	7.377	1.00	0.00	H
ATOM	263	HA	SER A	22140.944	2.034	8.414	1.00	0.00	H
ATOM	264	1HB	SER A	22140.698	3.506	5.783	1.00	0.00	H
ATOM	265	2HB	SER A	22139.467	2.512	6.560	1.00	0.00	H
ATOM	266	HG	SER A	22139.523	4.982	6.809	1.00	0.00	H
ATOM	267	N	LEU A	23141.257	0.211	6.615	1.00	0.00	N
ATOM	268	CA	LEU A	23141.709	-0.941	5.845	1.00	0.00	C
ATOM	269	C	LEU A	23141.254	-0.838	4.392	1.00	0.00	C
ATOM	270	O	LEU A	23140.219	-0.239	4.097	1.00	0.00	O
ATOM	271	CB	LEU A	23141.184	-2.235	6.466	1.00	0.00	C
ATOM	272	CG	LEU A	23141.434	-2.381	7.968	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.439	-3.352	8.583	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.860	-2.841	8.227	1.00	0.00	C
ATOM	275	H	LEU A	23140.404	0.160	7.094	1.00	0.00	H
ATOM	276	HA	LEU A	23142.789	-0.952	5.869	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.119	-2.286	6.292	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.653	-3.068	5.964	1.00	0.00	H
ATOM	279	HG	LEU A	23141.299	-1.420	8.443	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.559	-3.411	7.959	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.160	-3.006	9.568	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.891	-4.330	8.660	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.222	-3.393	7.372	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.881	-3.476	9.100	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.491	-1.979	8.394	1.00	0.00	H
ATOM	286	N	ALAA	24142.031	-1.428	3.490	1.00	0.00	N
ATOM	287	CA	ALAA	24141.706	-1.404	2.069	1.00	0.00	C
ATOM	288	C	ALAA	24142.159	-2.687	1.380	1.00	0.00	C
ATOM	289	O	ALAA	24142.913	-3.476	1.950	1.00	0.00	O
ATOM	290	CB	ALAA	24142.341	-0.192	1.404	1.00	0.00	C
ATOM	291	H	ALAA	24142.842	-1.891	3.787	1.00	0.00	H
ATOM	292	HA	ALAA	24140.634	-1.316	1.975	1.00	0.00	H

ATOM	293	1HB	ALA	A	24143.242	0.079	1.935	1.00	0.00	H
ATOM	294	2HB	ALA	A	24141.648	0.635	1.424	1.00	0.00	H
ATOM	295	3HB	ALA	A	24142.587	-0.432	0.380	1.00	0.00	H
ATOM	296	N	GLU	A	25141.693	-2.889	0.152	1.00	0.00	N
ATOM	297	CA	GLU	A	25142.049	-4.075	-0.616	1.00	0.00	C
ATOM	298	C	GLU	A	25142.445	-3.702	-2.042	1.00	0.00	C
ATOM	299	O	GLU	A	25141.940	-2.729	-2.600	1.00	0.00	O
ATOM	300	CB	GLU	A	25140.880	-5.062	-0.640	1.00	0.00	C
ATOM	301	CG	GLU	A	25141.279	-6.470	-1.053	1.00	0.00	C
ATOM	302	CD	GLU	A	25140.213	-7.159	-1.880	1.00	0.00	C
ATOM	303	OE1	GLU	A	25139.017	-7.009	-1.552	1.00	0.00	O
ATOM	304	OE2	GLU	A	25140.572	-7.849	-2.857	1.00	0.00	O
ATOM	305	H	GLU	A	25141.095	-2.223	-0.247	1.00	0.00	H
ATOM	306	HA	GLU	A	25142.894	-4.543	-0.131	1.00	0.00	H
ATOM	307	1HB	GLU	A	25140.443	-5.109	0.346	1.00	0.00	H
ATOM	308	2HB	GLU	A	25140.136	-4.703	-1.337	1.00	0.00	H
ATOM	309	1HG	GLU	A	25142.186	-6.417	-1.635	1.00	0.00	H
ATOM	310	2HG	GLU	A	25141.457	-7.054	-0.162	1.00	0.00	H
ATOM	311	N	VAL	A	26143.350	-4.483	-2.623	1.00	0.00	N
ATOM	312	CA	VAL	A	26143.813	-4.233	-3.984	1.00	0.00	C
ATOM	313	C	VAL	A	26143.423	-5.375	-4.915	1.00	0.00	C
ATOM	314	O	VAL	A	26143.204	-6.502	-4.472	1.00	0.00	O
ATOM	315	CB	VAL	A	26145.341	-4.044	-4.032	1.00	0.00	C
ATOM	316	CG1	VAL	A	26145.778	-3.585	-5.414	1.00	0.00	C
ATOM	317	CG2	VAL	A	26145.791	-3.057	-2.966	1.00	0.00	C
ATOM	318	H	VAL	A	26143.716	-5.244	-2.127	1.00	0.00	H
ATOM	319	HA	VAL	A	26143.347	-3.321	-4.332	1.00	0.00	H
ATOM	320	HB	VAL	A	26145.807	-4.997	-3.830	1.00	0.00	H
ATOM	321	1HG1	VAL	A	26145.945	-4.447	-6.044	1.00	0.00	H
ATOM	322	2HG1	VAL	A	26146.694	-3.018	-5.331	1.00	0.00	H
ATOM	323	3HG1	VAL	A	26145.009	-2.965	-5.849	1.00	0.00	H

ATOM	324	1HG2	VAL A	26145.624	-3.482	-1.988	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.227	-2.141	-3.062	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.843	-2.847	-3.092	1.00	0.00	H
ATOM	327	N	LYS A	27143.338	-5.075	-6.206	1.00	0.00	N
ATOM	328	CA	LYS A	27142.973	-6.078	-7.201	1.00	0.00	C
ATOM	329	C	LYS A	27144.218	-6.678	-7.851	1.00	0.00	C
ATOM	330	O	LYS A	27144.425	-6.549	-9.057	1.00	0.00	O
ATOM	331	CB	LYS A	27142.069	-5.461	-8.270	1.00	0.00	C
ATOM	332	CG	LYS A	27141.112	-6.456	-8.904	1.00	0.00	C
ATOM	333	CD	LYS A	27140.187	-5.780	-9.903	1.00	0.00	C
ATOM	334	CE	LYS A	27138.844	-6.486	-9.986	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.778	-7.421	-11.143	1.00	0.00	N
ATOM	336	H	LYS A	27143.523	-4.159	-6.499	1.00	0.00	H
ATOM	337	HA	LYS A	27142.433	-6.864	-6.695	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.488	-4.670	-7.821	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.688	-5.042	-9.050	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.683	-7.215	-9.417	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.516	-6.913	-8.128	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.026	-4.758	-9.594	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.652	-5.794	-10.877	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.688	-7.045	-9.074	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.066	-5.744	-10.089	1.00	0.00	H
ATOM	346	1HZ	LYS A	27139.310	-7.031	-11.948	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.790	-7.564	-11.432	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.188	-8.341	-10.883	1.00	0.00	H
ATOM	349	N	GLU A	28145.043	-7.334	-7.041	1.00	0.00	N
ATOM	350	CA	GLU A	28146.266	-7.954	-7.535	1.00	0.00	C
ATOM	351	C	GLU A	28146.086	-9.461	-7.691	1.00	0.00	C
ATOM	352	O	GLU A	28144.982	-9.982	-7.537	1.00	0.00	O
ATOM	353	CB	GLU A	28147.431	-7.661	-6.586	1.00	0.00	C
ATOM	354	CG	GLU A	28148.684	-7.174	-7.294	1.00	0.00	C

ATOM	355	CD	GLU A	28149.788	-6.792	-6.326	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.789	-5.637	-5.852	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.652	-7.648	-6.044	1.00	0.00	O
ATOM	358	H	GLU A	28144.823	-7.402	-6.088	1.00	0.00	H
ATOM	359	HA	GLU A	28146.487	-7.528	-8.503	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.123	-6.903	-5.881	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.678	-8.564	-6.045	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.048	-7.959	-7.939	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.432	-6.308	-7.890	1.00	0.00	H
ATOM	364	N	ASN A	29147.178	-10.153	-7.996	1.00	0.00	N
ATOM	365	CA	ASN A	29147.139	-11.601	-8.170	1.00	0.00	C
ATOM	366	C	ASN A	29146.933	-12.302	-6.830	1.00	0.00	C
ATOM	367	O	ASN A	29145.965	-13.040	-6.648	1.00	0.00	O
ATOM	368	CB	ASN A	29148.429	-12.092	-8.830	1.00	0.00	C
ATOM	369	CG	ASN A	29148.271	-12.304	-10.322	1.00	0.00	C
ATOM	370	OD1	ASN A	29148.150	-13.436	-10.791	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.269	-11.212	-11.078	1.00	0.00	N
ATOM	372	H	ASN A	29148.029	-9.682	-8.105	1.00	0.00	H
ATOM	373	HA	ASN A	29146.304	-11.833	-8.816	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.208	-11.362	-8.669	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.722	-13.030	-8.380	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.370	-10.343	-10.636	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.169	-11.319	-12.047	1.00	0.00	H
ATOM	378	N	PRO A	30147.846	-12.079	-5.868	1.00	0.00	N
ATOM	379	CA	PRO A	30147.762	-12.691	-4.541	1.00	0.00	C
ATOM	380	C	PRO A	30146.760	-11.975	-3.636	1.00	0.00	C
ATOM	381	O	PRO A	30146.982	-10.833	-3.235	1.00	0.00	O
ATOM	382	CB	PRO A	30149.180	-12.526	-3.999	1.00	0.00	C
ATOM	383	CG	PRO A	30149.681	-11.277	-4.640	1.00	0.00	C
ATOM	384	CD	PRO A	30149.034	-11.211	-6.000	1.00	0.00	C
ATOM	385	HA	PRO A	30147.515	-13.740	-4.601	1.00	0.00	H

ATOM	386	1HB	PRO A	30149.149	-12.435	-2.922	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.778	-13.380	-4.279	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.394	-10.421	-4.046	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.755	-11.323	-4.738	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.744	-10.196	-6.228	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.705	-11.590	-6.754	1.00	0.00	H
ATOM	392	N	PRO A	31145.636	-12.636	-3.300	1.00	0.00	N
ATOM	393	CA	PRO A	31144.604	-12.048	-2.439	1.00	0.00	C
ATOM	394	C	PRO A	31145.149	-11.661	-1.068	1.00	0.00	C
ATOM	395	O	PRO A	31145.121	-12.457	-0.130	1.00	0.00	O
ATOM	396	CB	PRO A	31143.561	-13.163	-2.302	1.00	0.00	C
ATOM	397	CG	PRO A	31143.805	-14.066	-3.462	1.00	0.00	C
ATOM	398	CD	PRO A	31145.281	-14.000	-3.729	1.00	0.00	C
ATOM	399	HA	PRO A	31144.152	-11.181	-2.900	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.703	-13.679	-1.364	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.569	-12.737	-2.337	1.00	0.00	H
ATOM	402	1HG	PRO A	31143.514	-15.075	-3.210	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.253	-13.718	-4.321	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.806	-14.740	-3.141	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.482	-14.138	-4.780	1.00	0.00	H
ATOM	406	N	PHE A	32145.645	-10.432	-0.960	1.00	0.00	N
ATOM	407	CA	PHE A	32146.196	-9.939	0.298	1.00	0.00	C
ATOM	408	C	PHE A	32145.290	-8.877	0.910	1.00	0.00	C
ATOM	409	O	PHE A	32144.361	-8.391	0.263	1.00	0.00	O
ATOM	410	CB	PHE A	32147.596	-9.363	0.074	1.00	0.00	C
ATOM	411	CG	PHE A	32147.655	-8.335	-1.019	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.052	-7.098	-0.857	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.313	-8.606	-2.208	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.105	-6.150	-1.861	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.368	-7.662	-3.216	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.764	-6.432	-3.043	1.00	0.00	C

ATOM	417	H	PHE A	32145.640	-9.844	-1.742	1.00	0.00	H
ATOM	418	HA	PHE A	32146.265	-10.773	0.979	1.00	0.00	H
ATOM	419	1HB	PHE A	32147.936	-8.897	0.986	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.271	-10.166	-0.187	1.00	0.00	H
ATOM	421	HD1	PHE A	32146.537	-6.876	0.065	1.00	0.00	H
ATOM	422	HD2	PHE A	32148.786	-9.568	-2.345	1.00	0.00	H
ATOM	423	HE1	PHE A	32146.631	-5.190	-1.723	1.00	0.00	H
ATOM	424	HE2	PHE A	32148.884	-7.885	-4.138	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.806	-5.692	-3.828	1.00	0.00	H
ATOM	426	N	TYR A	33145.564	-8.520	2.160	1.00	0.00	N
ATOM	427	CA	TYR A	33144.772	-7.516	2.860	1.00	0.00	C
ATOM	428	C	TYR A	33145.668	-6.578	3.662	1.00	0.00	C
ATOM	429	O	TYR A	33146.300	-6.990	4.636	1.00	0.00	O
ATOM	430	CB	TYR A	33143.758	-8.189	3.787	1.00	0.00	C
ATOM	431	CG	TYR A	33142.506	-8.653	3.078	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.622	-7.739	2.518	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.207	-10.006	2.968	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.476	-8.159	1.869	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.063	-10.434	2.321	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.202	-9.507	1.774	1.00	0.00	C
ATOM	437	OH	TYR A	33139.063	-9.929	1.128	1.00	0.00	O
ATOM	438	H	TYR A	33146.317	-8.943	2.624	1.00	0.00	H
ATOM	439	HA	TYR A	33144.240	-6.938	2.119	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.218	-9.051	4.246	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.466	-7.490	4.556	1.00	0.00	H
ATOM	442	HD1	TYR A	33141.840	-6.684	2.594	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.884	-10.729	3.399	1.00	0.00	H
ATOM	444	HE1	TYR A	33139.802	-7.434	1.440	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.850	-11.490	2.247	1.00	0.00	H
ATOM	446	HH	TYR A	33138.936	-9.413	0.329	1.00	0.00	H
ATOM	447	N	GLY A	34145.718	-5.317	3.249	1.00	0.00	N



ATOM	448	CA	GLY A	34146.539	-4.340	3.940	1.00	0.00	C
ATOM	449	C	GLY A	34145.736	-3.149	4.428	1.00	0.00	C
ATOM	450	O	GLY A	34144.535	-3.056	4.177	1.00	0.00	O
ATOM	451	H	GLY A	34145.192	-5.046	2.467	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.008	-4.815	4.789	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.307	-3.990	3.266	1.00	0.00	H
ATOM	454	N	VAL A	35146.402	-2.237	5.128	1.00	0.00	N
ATOM	455	CA	VAL A	35145.745	-1.046	5.652	1.00	0.00	C
ATOM	456	C	VAL A	35146.403	0.224	5.120	1.00	0.00	C
ATOM	457	O	VAL A	35147.618	0.274	4.935	1.00	0.00	O
ATOM	458	CB	VAL A	35145.772	-1.023	7.194	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.205	-0.993	7.705	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.983	0.162	7.727	1.00	0.00	C
ATOM	461	H	VAL A	35147.359	-2.366	5.294	1.00	0.00	H
ATOM	462	HA	VAL A	35144.713	-1.066	5.332	1.00	0.00	H
ATOM	463	HB	VAL A	35145.307	-1.929	7.554	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.873	-1.340	6.930	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.293	-1.635	8.570	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.468	0.018	7.980	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.274	1.057	7.198	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.186	0.285	8.781	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.927	-0.015	7.584	1.00	0.00	H
ATOM	470	N	ILE A	36145.591	1.248	4.876	1.00	0.00	N
ATOM	471	CA	ILE A	36146.096	2.517	4.365	1.00	0.00	C
ATOM	472	C	ILE A	36147.061	3.159	5.356	1.00	0.00	C
ATOM	473	O	ILE A	36146.812	3.173	6.562	1.00	0.00	O
ATOM	474	CB	ILE A	36144.948	3.503	4.069	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.892	2.840	3.183	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.488	4.763	3.406	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.739	3.756	2.826	1.00	0.00	C
ATOM	478	H	ILE A	36144.631	1.147	5.044	1.00	0.00	H

ATOM	479	HA	ILE A	36146.621	2.319	3.442	1.00	0.00	H
ATOM	480	HB	ILE A	36144.495	3.785	5.007	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.354	2.517	2.262	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.486	1.981	3.697	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.324	4.707	2.341	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.545	4.850	3.604	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.975	5.626	3.805	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.049	3.805	3.654	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.230	3.370	1.955	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.118	4.744	2.613	1.00	0.00	H
ATOM	489	N	ARG A	37148.167	3.687	4.840	1.00	0.00	N
ATOM	490	CA	ARG A	37149.172	4.328	5.679	1.00	0.00	C
ATOM	491	C	ARG A	37149.440	5.757	5.214	1.00	0.00	C
ATOM	492	O	ARG A	37149.255	6.711	5.969	1.00	0.00	O
ATOM	493	CB	ARG A	37150.471	3.521	5.662	1.00	0.00	C
ATOM	494	CG	ARG A	37150.268	2.038	5.926	1.00	0.00	C
ATOM	495	CD	ARG A	37149.643	1.795	7.290	1.00	0.00	C
ATOM	496	NE	ARG A	37150.560	2.125	8.379	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.200	2.184	9.659	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.945	1.938	10.015	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.097	2.492	10.585	1.00	0.00	N
ATOM	500	H	ARG A	37148.310	3.644	3.871	1.00	0.00	H
ATOM	501	HA	ARG A	37148.791	4.358	6.689	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.938	3.632	4.694	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.134	3.912	6.420	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.617	1.633	5.165	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.226	1.541	5.885	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.758	2.408	7.381	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.369	0.754	7.366	1.00	0.00	H
ATOM	508	HE	ARG A	37151.493	2.313	8.144	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.264	1.706	9.321	1.00	0.00	H

ATOM	510	2HH1	ARG A	37148.681	1.984	10.979	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.044	2.678	10.322	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.827	2.536	11.548	1.00	0.00	H
ATOM	513	N	TRP A	38149.880	5.895	3.966	1.00	0.00	N
ATOM	514	CA	TRP A	38150.174	7.208	3.403	1.00	0.00	C
ATOM	515	C	TRP A	38149.462	7.403	2.068	1.00	0.00	C
ATOM	516	O	TRP A	38149.486	6.526	1.205	1.00	0.00	O
ATOM	517	CB	TRP A	38151.686	7.384	3.223	1.00	0.00	C
ATOM	518	CG	TRP A	38152.057	8.601	2.427	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.293	9.857	2.909	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.228	8.678	1.007	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.601	10.709	1.874	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.568	10.008	0.698	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.128	7.749	-0.033	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.807	10.431	-0.608	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.366	8.170	-1.328	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.702	9.500	-1.606	1.00	0.00	C
ATOM	527	H	TRP A	38150.009	5.098	3.413	1.00	0.00	H
ATOM	528	HA	TRP A	38149.817	7.954	4.099	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.150	7.468	4.194	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.083	6.518	2.714	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.241	10.128	3.953	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.810	11.662	1.966	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.871	6.719	0.162	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.064	11.453	-0.839	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.293	7.466	-2.144	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.880	9.785	-2.633	1.00	0.00	H
ATOM	537	N	ILE A	39148.840	8.565	1.903	1.00	0.00	N
ATOM	538	CA	ILE A	39148.129	8.888	0.673	1.00	0.00	C
ATOM	539	C	ILE A	39148.644	10.196	0.083	1.00	0.00	C
ATOM	540	O	ILE A	39148.356	11.276	0.600	1.00	0.00	O

ATOM	541	CB	ILE A	39146.612	9.006	0.912	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.098	7.788	1.681	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.876	9.153	-0.412	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.744	8.003	2.321	1.00	0.00	C
ATOM	545	H	ILE A	39148.864	9.226	2.627	1.00	0.00	H
ATOM	546	HA	ILE A	39148.302	8.090	-0.034	1.00	0.00	H
ATOM	547	HB	ILE A	39146.429	9.895	1.497	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.014	6.951	1.004	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.800	7.541	2.464	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.353	9.919	-1.005	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.849	9.430	-0.224	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.904	8.214	-0.945	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.547	9.062	2.400	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.737	7.561	3.306	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.980	7.540	1.713	1.00	0.00	H
ATOM	556	N	GLY A	40149.411	10.094	-0.997	1.00	0.00	N
ATOM	557	CA	GLY A	40149.957	11.280	-1.629	1.00	0.00	C
ATOM	558	C	GLY A	40150.521	11.002	-3.007	1.00	0.00	C
ATOM	559	O	GLY A	40150.356	9.909	-3.548	1.00	0.00	O
ATOM	560	H	GLY A	40149.611	9.207	-1.365	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.177	12.019	-1.714	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.743	11.674	-1.004	1.00	0.00	H
ATOM	563	N	GLN A	41151.189	12.000	-3.577	1.00	0.00	N
ATOM	564	CA	GLN A	41151.781	11.871	-4.901	1.00	0.00	C
ATOM	565	C	GLN A	41153.254	12.277	-4.876	1.00	0.00	C
ATOM	566	O	GLN A	41153.579	13.436	-4.618	1.00	0.00	O
ATOM	567	CB	GLN A	41151.014	12.736	-5.900	1.00	0.00	C
ATOM	568	CG	GLN A	41149.507	12.549	-5.832	1.00	0.00	C
ATOM	569	CD	GLN A	41148.751	13.854	-5.985	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.708	14.671	-5.065	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.150	14.054	-7.151	1.00	0.00	N

ATOM	572	H	GLN A	41151.283	12.847	-3.095	1.00	0.00	H
ATOM	573	HA	GLN A	41151.705	10.837	-5.201	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.234	13.774	-5.703	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.343	12.491	-6.897	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.204	11.882	-6.625	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.253	12.112	-4.878	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.228	13.358	-7.836	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.654	14.890	-7.279	1.00	0.00	H
ATOM	580	N	PRO A	42154.170	11.328	-5.143	1.00	0.00	N
ATOM	581	CA	PRO A	42155.611	11.603	-5.144	1.00	0.00	C
ATOM	582	C	PRO A	42155.990	12.708	-6.124	1.00	0.00	C
ATOM	583	O	PRO A	42155.242	13.007	-7.055	1.00	0.00	O
ATOM	584	CB	PRO A	42156.234	10.270	-5.576	1.00	0.00	C
ATOM	585	CG	PRO A	42155.205	9.245	-5.250	1.00	0.00	C
ATOM	586	CD	PRO A	42153.880	9.918	-5.459	1.00	0.00	C
ATOM	587	HA	PRO A	42155.964	11.863	-4.157	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.445	10.297	-6.636	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.147	10.100	-5.025	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.304	8.398	-5.913	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.308	8.933	-4.221	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.560	9.812	-6.486	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.139	9.516	-4.785	1.00	0.00	H
ATOM	594	N	PRO A	43157.164	13.333	-5.927	1.00	0.00	N
ATOM	595	CA	PRO A	43157.639	14.410	-6.798	1.00	0.00	C
ATOM	596	C	PRO A	43158.084	13.898	-8.162	1.00	0.00	C
ATOM	597	O	PRO A	43159.259	13.598	-8.370	1.00	0.00	O
ATOM	598	CB	PRO A	43158.831	14.985	-6.032	1.00	0.00	C
ATOM	599	CG	PRO A	43159.327	13.854	-5.201	1.00	0.00	C
ATOM	600	CD	PRO A	43158.115	13.037	-4.839	1.00	0.00	C
ATOM	601	HA	PRO A	43156.888	15.175	-6.929	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.580	15.320	-6.733	1.00	0.00	H

ATOM	603	2HB	PRO A	43158.505	15.812	-5.420	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.024	13.257	-5.770	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.801	14.235	-4.308	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.363	11.985	-4.819	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.720	13.350	-3.885	1.00	0.00	H
ATOM	608	N	GLY A	44157.137	13.799	-9.088	1.00	0.00	N
ATOM	609	CA	GLY A	44157.455	13.321	-10.420	1.00	0.00	C
ATOM	610	C	GLY A	44156.242	12.780	-11.148	1.00	0.00	C
ATOM	611	O	GLY A	44155.976	13.154	-12.290	1.00	0.00	O
ATOM	612	H	GLY A	44156.217	14.052	-8.866	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.870	14.136	-10.993	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.193	12.538	-10.344	1.00	0.00	H
ATOM	615	N	LEU A	45155.501	11.897	-10.485	1.00	0.00	N
ATOM	616	CA	LEU A	45154.309	11.306	-11.079	1.00	0.00	C
ATOM	617	C	LEU A	45153.078	11.600	-10.230	1.00	0.00	C
ATOM	618	O	LEU A	45152.951	11.097	-9.114	1.00	0.00	O
ATOM	619	CB	LEU A	45154.485	9.794	-11.233	1.00	0.00	C
ATOM	620	CG	LEU A	45155.017	9.076	-9.993	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.677	7.593	-10.044	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.521	9.282	-9.864	1.00	0.00	C
ATOM	623	H	LEU A	45155.762	11.639	-9.575	1.00	0.00	H
ATOM	624	HA	LEU A	45154.171	11.745	-12.056	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.527	9.365	-11.490	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.170	9.614	-12.048	1.00	0.00	H
ATOM	627	HG	LEU A	45154.546	9.495	-9.114	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.921	7.371	-9.306	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.564	7.011	-9.837	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.305	7.341	-11.027	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.910	9.685	-10.787	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.998	8.336	-9.654	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.721	9.971	-9.058	1.00	0.00	H

ATOM	634	N	ASN A	46152.171	12.413	-10.762	1.00	0.00	N
ATOM	635	CA	ASN A	46150.957	12.758	-10.038	1.00	0.00	C
ATOM	636	C	ASN A	46149.995	11.576	-10.017	1.00	0.00	C
ATOM	637	O	ASN A	46149.389	11.234	-11.033	1.00	0.00	O
ATOM	638	CB	ASN A	46150.283	13.971	-10.685	1.00	0.00	C
ATOM	639	CG	ASN A	46149.129	14.503	-9.860	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.303	15.398	-9.032	1.00	0.00	O
ATOM	641	ND2	ASN A	46147.939	13.956	-10.083	1.00	0.00	N
ATOM	642	H	ASN A	46152.322	12.784	-11.656	1.00	0.00	H
ATOM	643	HA	ASN A	46151.230	13.006	-9.024	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.012	14.760	-10.801	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.907	13.689	-11.658	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.875	13.248	-10.758	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.175	14.280	-9.563	1.00	0.00	H
ATOM	648	N	GLU A	47149.861	10.955	-8.851	1.00	0.00	N
ATOM	649	CA	GLU A	47148.975	9.809	-8.688	1.00	0.00	C
ATOM	650	C	GLU A	47148.762	9.496	-7.211	1.00	0.00	C
ATOM	651	O	GLU A	47149.716	9.219	-6.485	1.00	0.00	O
ATOM	652	CB	GLU A	47149.547	8.583	-9.406	1.00	0.00	C
ATOM	653	CG	GLU A	47151.060	8.458	-9.295	1.00	0.00	C
ATOM	654	CD	GLU A	47151.638	7.490	-10.309	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.922	6.334	-9.932	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.808	7.889	-11.480	1.00	0.00	O
ATOM	657	H	GLU A	47150.372	11.276	-8.079	1.00	0.00	H
ATOM	658	HA	GLU A	47148.023	10.062	-9.131	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.103	7.694	-8.983	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.288	8.642	-10.453	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.501	9.430	-9.457	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.309	8.110	-8.304	1.00	0.00	H
ATOM	663	N	VAL A	48147.509	9.531	-6.773	1.00	0.00	N
ATOM	664	CA	VAL A	48147.186	9.241	-5.382	1.00	0.00	C

ATOM	665	C	VAL A	48147.515	7.792	-5.045	1.00	0.00	C
ATOM	666	O	VAL A	48146.778	6.877	-5.410	1.00	0.00	O
ATOM	667	CB	VAL A	48145.699	9.505	-5.081	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.426	9.387	-3.590	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.284	10.873	-5.601	1.00	0.00	C
ATOM	670	H	VAL A	48146.787	9.752	-7.398	1.00	0.00	H
ATOM	671	HA	VAL A	48147.782	9.891	-4.757	1.00	0.00	H
ATOM	672	HB	VAL A	48145.111	8.756	-5.592	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.434	9.758	-3.376	1.00	0.00	H
ATOM	674	2HG1	VAL A	48146.154	9.968	-3.043	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.495	8.351	-3.292	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.342	11.156	-5.156	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.178	10.833	-6.675	1.00	0.00	H
ATOM	678	3HG2	VAL A	48146.038	11.600	-5.341	1.00	0.00	H
ATOM	679	N	LEU A	49148.629	7.589	-4.349	1.00	0.00	N
ATOM	680	CA	LEU A	49149.057	6.249	-3.967	1.00	0.00	C
ATOM	681	C	LEU A	49148.869	6.026	-2.472	1.00	0.00	C
ATOM	682	O	LEU A	49149.509	6.684	-1.651	1.00	0.00	O
ATOM	683	CB	LEU A	49150.523	6.031	-4.347	1.00	0.00	C
ATOM	684	CG	LEU A	49150.819	6.092	-5.846	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.276	6.456	-6.088	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.482	4.765	-6.509	1.00	0.00	C
ATOM	687	H	LEU A	49149.177	8.359	-4.087	1.00	0.00	H
ATOM	688	HA	LEU A	49148.446	5.541	-4.504	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.117	6.786	-3.852	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.827	5.062	-3.982	1.00	0.00	H
ATOM	691	HG	LEU A	49150.205	6.858	-6.297	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.360	7.015	-7.007	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.865	5.554	-6.159	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.637	7.058	-5.267	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.448	4.896	-7.581	1.00	0.00	H



ATOM	696	2HD2	LEU A	49149.520	4.421	-6.158	1.00	0.00	H
ATOM	697	3HD2	LEU A	49151.238	4.035	-6.260	1.00	0.00	H
ATOM	698	N	ALA A	50147.987	5.096	-2.125	1.00	0.00	N
ATOM	699	CA	ALA A	50147.717	4.789	-0.728	1.00	0.00	C
ATOM	700	C	ALA A	50148.598	3.644	-0.237	1.00	0.00	C
ATOM	701	O	ALA A	50148.479	2.512	-0.706	1.00	0.00	O
ATOM	702	CB	ALA A	50146.247	4.448	-0.537	1.00	0.00	C
ATOM	703	H	ALA A	50147.508	4.605	-2.825	1.00	0.00	H
ATOM	704	HA	ALA A	50147.937	5.673	-0.148	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.886	4.911	0.370	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.132	3.376	-0.464	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.680	4.814	-1.379	1.00	0.00	H
ATOM	708	N	GLY A	51149.481	3.945	0.709	1.00	0.00	N
ATOM	709	CA	GLY A	51150.367	2.930	1.246	1.00	0.00	C
ATOM	710	C	GLY A	51149.616	1.834	1.976	1.00	0.00	C
ATOM	711	O	GLY A	51148.873	2.103	2.919	1.00	0.00	O
ATOM	712	H	GLY A	51149.530	4.865	1.045	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.925	2.489	0.434	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.057	3.397	1.933	1.00	0.00	H
ATOM	715	N	LEU A	52149.809	0.594	1.540	1.00	0.00	N
ATOM	716	CA	LEU A	52149.144	-0.547	2.159	1.00	0.00	C
ATOM	717	C	LEU A	52150.156	-1.473	2.823	1.00	0.00	C
ATOM	718	O	LEU A	52151.152	-1.862	2.211	1.00	0.00	O
ATOM	719	CB	LEU A	52148.334	-1.320	1.116	1.00	0.00	C
ATOM	720	CG	LEU A	52147.158	-0.552	0.509	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.691	-1.219	-0.775	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.015	-0.455	1.508	1.00	0.00	C
ATOM	723	H	LEU A	52150.414	0.442	0.783	1.00	0.00	H
ATOM	724	HA	LEU A	52148.472	-0.168	2.914	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.000	-1.608	0.316	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.948	-2.214	1.581	1.00	0.00	H

ATOM	727	HG	LEU A	52147.479	0.452	0.266	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.196	-0.491	-1.400	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.003	-2.017	-0.536	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.543	-1.625	-1.300	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.635	-1.444	1.717	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.226	0.155	1.093	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.373	-0.006	2.423	1.00	0.00	H
ATOM	734	N	GLU A	53149.896	-1.824	4.078	1.00	0.00	N
ATOM	735	CA	GLU A	53150.785	-2.704	4.826	1.00	0.00	C
ATOM	736	C	GLU A	53150.228	-4.123	4.878	1.00	0.00	C
ATOM	737	O	GLU A	53149.272	-4.398	5.604	1.00	0.00	O
ATOM	738	CB	GLU A	53150.991	-2.171	6.245	1.00	0.00	C
ATOM	739	CG	GLU A	53151.929	-3.022	7.085	1.00	0.00	C
ATOM	740	CD	GLU A	53151.460	-3.163	8.521	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.529	-3.960	8.765	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.022	-2.475	9.399	1.00	0.00	O
ATOM	743	H	GLU A	53149.087	-1.481	4.512	1.00	0.00	H
ATOM	744	HA	GLU A	53151.738	-2.724	4.317	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.400	-1.173	6.186	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.034	-2.128	6.743	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.992	-4.006	6.646	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.908	-2.565	7.085	1.00	0.00	H
ATOM	749	N	LEU A	54150.831	-5.020	4.106	1.00	0.00	N
ATOM	750	CA	LEU A	54150.395	-6.411	4.066	1.00	0.00	C
ATOM	751	C	LEU A	54150.670	-7.106	5.395	1.00	0.00	C
ATOM	752	O	LEU A	54151.717	-6.900	6.009	1.00	0.00	O
ATOM	753	CB	LEU A	54151.101	-7.155	2.930	1.00	0.00	C
ATOM	754	CG	LEU A	54151.009	-6.482	1.560	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.142	-6.950	0.659	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.661	-6.766	0.916	1.00	0.00	C
ATOM	757	H	LEU A	54151.588	-4.741	3.550	1.00	0.00	H

ATOM	758	HA	LEU A	54149.331	-6.419	3.882	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.144	-7.259	3.190	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.668	-8.141	2.850	1.00	0.00	H
ATOM	761	HG	LEU A	54151.103	-5.412	1.685	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.417	-7.961	0.921	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.995	-6.300	0.787	1.00	0.00	H
ATOM	764	3HD1	LEU A	54151.818	-6.920	-0.371	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.379	-5.934	0.288	1.00	0.00	H
ATOM	766	2HD2	LEU A	54148.916	-6.904	1.686	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.729	-7.662	0.316	1.00	0.00	H
ATOM	768	N	GLU A	55149.724	-7.930	5.832	1.00	0.00	N
ATOM	769	CA	GLU A	55149.864	-8.657	7.089	1.00	0.00	C
ATOM	770	C	GLU A	55150.994	-9.678	7.005	1.00	0.00	C
ATOM	771	O	GLU A	55151.789	-9.818	7.934	1.00	0.00	O
ATOM	772	CB	GLU A	55148.553	-9.359	7.446	1.00	0.00	C
ATOM	773	CG	GLU A	55147.334	-8.455	7.347	1.00	0.00	C
ATOM	774	CD	GLU A	55146.084	-9.100	7.915	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.229	-8.364	8.452	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.960	-10.339	7.820	1.00	0.00	O
ATOM	777	H	GLU A	55148.912	-8.054	5.297	1.00	0.00	H
ATOM	778	HA	GLU A	55150.100	-7.940	7.861	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.411	-10.194	6.777	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.619	-9.728	8.459	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.531	-7.545	7.893	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.160	-8.221	6.307	1.00	0.00	H
ATOM	783	N	ASP A	56151.058	-10.392	5.886	1.00	0.00	N
ATOM	784	CA	ASP A	56152.090	-11.401	5.680	1.00	0.00	C
ATOM	785	C	ASP A	56153.367	-10.771	5.130	1.00	0.00	C
ATOM	786	O	ASP A	56153.327	-10.001	4.171	1.00	0.00	O
ATOM	787	CB	ASP A	56151.590	-12.485	4.723	1.00	0.00	C
ATOM	788	CG	ASP A	56150.920	-13.634	5.451	1.00	0.00	C

ATOM	789	OD1	ASP A	56151.503	-14.134	6.435	1.00	0.00	O
ATOM	790	OD2	ASP A	56149.812	-14.033	5.037	1.00	0.00	O
ATOM	791	H	ASP A	56150.396	-10.235	5.180	1.00	0.00	H
ATOM	792	HA	ASP A	56152.308	-11.851	6.636	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.875	-12.051	4.039	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.426	-12.876	4.163	1.00	0.00	H
ATOM	795	N	GLU A	57154.497	-11.105	5.745	1.00	0.00	N
ATOM	796	CA	GLU A	57155.785	-10.572	5.317	1.00	0.00	C
ATOM	797	C	GLU A	57156.231	-11.213	4.006	1.00	0.00	C
ATOM	798	O	GLU A	57156.596	-12.388	3.971	1.00	0.00	O
ATOM	799	CB	GLU A	57156.843	-10.807	6.398	1.00	0.00	C
ATOM	800	CG	GLU A	57156.548	-10.088	7.703	1.00	0.00	C
ATOM	801	CD	GLU A	57157.377	-10.615	8.859	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.607	-10.399	8.853	1.00	0.00	O
ATOM	803	OE2	GLU A	57156.796	-11.244	9.768	1.00	0.00	O
ATOM	804	H	GLU A	57154.464	-11.724	6.504	1.00	0.00	H
ATOM	805	HA	GLU A	57155.670	-9.510	5.163	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.905	-11.866	6.600	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.798	-10.463	6.029	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.762	-9.037	7.578	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.503	-10.216	7.942	1.00	0.00	H
ATOM	810	N	CYS A	58156.196	-10.433	2.931	1.00	0.00	N
ATOM	811	CA	CYS A	58156.596	-10.925	1.617	1.00	0.00	C
ATOM	812	C	CYS A	58158.001	-10.450	1.263	1.00	0.00	C
ATOM	813	O	CYS A	58158.351	-9.292	1.492	1.00	0.00	O
ATOM	814	CB	CYS A	58155.603	-10.459	0.552	1.00	0.00	C
ATOM	815	SG	CYS A	58154.230	-11.601	0.272	1.00	0.00	S
ATOM	816	H	CYS A	58155.895	-9.505	3.023	1.00	0.00	H
ATOM	817	HA	CYS A	58156.592	-12.004	1.652	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.184	-9.509	0.851	1.00	0.00	H
ATOM	819	2HB	CYS A	58156.125	-10.335	-0.387	1.00	0.00	H

ATOM	820	HG	CYS A	58153.489	-11.095	-0.071	1.00	0.00	H
ATOM	821	N	ALAA	59158.801	-11.350	0.702	1.00	0.00	N
ATOM	822	CA	ALAA	59160.167	-11.022	0.315	1.00	0.00	C
ATOM	823	C	ALAA	59160.187	-10.082	-0.886	1.00	0.00	C
ATOM	824	O	ALAA	59159.903	-10.491	-2.012	1.00	0.00	O
ATOM	825	CB	ALAA	59160.947	-12.292	0.005	1.00	0.00	C
ATOM	826	H	ALAA	59158.463	-12.256	0.544	1.00	0.00	H
ATOM	827	HA	ALAA	59160.643	-10.532	1.152	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.958	-12.193	0.372	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.965	-12.452	-1.062	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.471	-13.132	0.488	1.00	0.00	H
ATOM	831	N	GLY A	60160.524	-8.821	-0.637	1.00	0.00	N
ATOM	832	CA	GLY A	60160.574	-7.842	-1.708	1.00	0.00	C
ATOM	833	C	GLY A	60159.929	-6.525	-1.320	1.00	0.00	C
ATOM	834	O	GLY A	60160.307	-5.469	-1.827	1.00	0.00	O
ATOM	835	H	GLY A	60160.739	-8.552	0.281	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.607	-7.662	-1.967	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.061	-8.241	-2.570	1.00	0.00	H
ATOM	838	N	CYS A	61158.954	-6.589	-0.420	1.00	0.00	N
ATOM	839	CA	CYS A	61158.255	-5.393	0.035	1.00	0.00	C
ATOM	840	C	CYS A	61159.192	-4.483	0.823	1.00	0.00	C
ATOM	841	O	CYS A	61160.303	-4.876	1.177	1.00	0.00	O
ATOM	842	CB	CYS A	61157.052	-5.777	0.899	1.00	0.00	C
ATOM	843	SG	CYS A	61155.952	-6.992	0.134	1.00	0.00	S
ATOM	844	H	CYS A	61158.697	-7.461	-0.053	1.00	0.00	H
ATOM	845	HA	CYS A	61157.905	-4.861	-0.838	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.405	-6.194	1.830	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.470	-4.890	1.106	1.00	0.00	H
ATOM	848	HG	CYS A	61156.418	-7.831	0.095	1.00	0.00	H
ATOM	849	N	THRA	62158.734	-3.265	1.096	1.00	0.00	N
ATOM	850	CA	THRA	62159.531	-2.299	1.842	1.00	0.00	C

ATOM	851	C	THR A	62159.054	-2.201	3.287	1.00	0.00	C
ATOM	852	O	THR A	62158.129	-2.903	3.695	1.00	0.00	O
ATOM	853	CB	THR A	62159.461	-0.924	1.175	1.00	0.00	C
ATOM	854	OG1	THR A	62158.186	-0.714	0.595	1.00	0.00	O
ATOM	855	CG2	THR A	62160.497	-0.732	0.089	1.00	0.00	C
ATOM	856	H	THR A	62157.840	-3.010	0.786	1.00	0.00	H
ATOM	857	HA	THR A	62160.556	-2.640	1.836	1.00	0.00	H
ATOM	858	HB	THR A	62159.622	-0.163	1.925	1.00	0.00	H
ATOM	859	HG1	THR A	62157.729	-0.016	1.070	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.485	-0.763	0.525	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.344	0.224	-0.389	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.402	-1.520	-0.643	1.00	0.00	H
ATOM	863	N	ASP A	63159.692	-1.326	4.058	1.00	0.00	N
ATOM	864	CA	ASP A	63159.332	-1.135	5.458	1.00	0.00	C
ATOM	865	C	ASP A	63158.683	0.228	5.672	1.00	0.00	C
ATOM	866	O	ASP A	63158.810	0.827	6.741	1.00	0.00	O
ATOM	867	CB	ASP A	63160.569	-1.269	6.347	1.00	0.00	C
ATOM	868	CG	ASP A	63161.735	-0.442	5.843	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.877	-0.947	5.871	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.506	0.712	5.422	1.00	0.00	O
ATOM	871	H	ASP A	63160.421	-0.794	3.675	1.00	0.00	H
ATOM	872	HA	ASP A	63158.622	-1.904	5.725	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.325	-0.942	7.346	1.00	0.00	H
ATOM	874	2HB	ASP A	63160.873	-2.306	6.376	1.00	0.00	H
ATOM	875	N	GLY A	64157.987	0.715	4.650	1.00	0.00	N
ATOM	876	CA	GLY A	64157.329	2.004	4.747	1.00	0.00	C
ATOM	877	C	GLY A	64158.059	3.087	3.979	1.00	0.00	C
ATOM	878	O	GLY A	64158.181	4.218	4.451	1.00	0.00	O
ATOM	879	H	GLY A	64157.919	0.194	3.823	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.326	1.914	4.357	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.274	2.291	5.788	1.00	0.00	H

ATOM	882	N	THR A	65158.544	2.743	2.791	1.00	0.00	N
ATOM	883	CA	THR A	65159.266	3.694	1.954	1.00	0.00	C
ATOM	884	C	THR A	65158.921	3.495	0.482	1.00	0.00	C
ATOM	885	O	THR A	65158.995	2.381	-0.038	1.00	0.00	O
ATOM	886	CB	THR A	65160.775	3.546	2.161	1.00	0.00	C
ATOM	887	OG1	THR A	65161.186	2.213	1.916	1.00	0.00	O
ATOM	888	CG2	THR A	65161.226	3.917	3.557	1.00	0.00	C
ATOM	889	H	THR A	65158.415	1.826	2.469	1.00	0.00	H
ATOM	890	HA	THR A	65158.967	4.689	2.250	1.00	0.00	H
ATOM	891	HB	THR A	65161.288	4.194	1.466	1.00	0.00	H
ATOM	892	HG1	THR A	65160.799	1.905	1.093	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.492	4.565	4.014	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.175	4.430	3.505	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.333	3.021	4.151	1.00	0.00	H
ATOM	896	N	PHE A	66158.545	4.581	-0.185	1.00	0.00	N
ATOM	897	CA	PHE A	66158.189	4.526	-1.598	1.00	0.00	C
ATOM	898	C	PHE A	66159.244	5.221	-2.452	1.00	0.00	C
ATOM	899	O	PHE A	66159.348	6.447	-2.453	1.00	0.00	O
ATOM	900	CB	PHE A	66156.822	5.175	-1.826	1.00	0.00	C
ATOM	901	CG	PHE A	66156.219	4.847	-3.162	1.00	0.00	C
ATOM	902	CD1	PHE A	66156.098	3.531	-3.579	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.771	5.856	-4.001	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.543	3.227	-4.808	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.215	5.557	-5.231	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.101	4.241	-5.635	1.00	0.00	C
ATOM	907	H	PHE A	66158.506	5.440	0.285	1.00	0.00	H
ATOM	908	HA	PHE A	66158.136	3.486	-1.886	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.139	4.837	-1.062	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.926	6.248	-1.761	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.443	2.737	-2.934	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.860	6.885	-3.686	1.00	0.00	H

ATOM	913	HE1	PHE A	66155.456	2.198	-5.121	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.871	6.352	-5.875	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.666	4.007	-6.595	1.00	0.00	H
ATOM	916	N	ARG A	67160.023	4.428	-3.181	1.00	0.00	N
ATOM	917	CA	ARG A	67161.070	4.967	-4.042	1.00	0.00	C
ATOM	918	C	ARG A	67162.093	5.754	-3.228	1.00	0.00	C
ATOM	919	O	ARG A	67162.571	6.803	-3.660	1.00	0.00	O
ATOM	920	CB	ARG A	67160.460	5.864	-5.121	1.00	0.00	C
ATOM	921	CG	ARG A	67159.253	5.250	-5.812	1.00	0.00	C
ATOM	922	CD	ARG A	67158.944	5.953	-7.123	1.00	0.00	C
ATOM	923	NE	ARG A	67157.578	5.696	-7.573	1.00	0.00	N
ATOM	924	CZ	ARG A	67157.193	4.569	-8.167	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.066	3.594	-8.385	1.00	0.00	N
ATOM	926	NH2	ARG A	67155.931	4.416	-8.545	1.00	0.00	N
ATOM	927	H	ARG A	67159.891	3.458	-3.140	1.00	0.00	H
ATOM	928	HA	ARG A	67161.568	4.136	-4.517	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.153	6.796	-4.668	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.210	6.068	-5.869	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.457	4.208	-6.013	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.397	5.331	-5.158	1.00	0.00	H
ATOM	933	1HD	ARG A	67159.073	7.017	-6.985	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.634	5.603	-7.876	1.00	0.00	H
ATOM	935	HE	ARG A	67156.913	6.401	-7.425	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.019	3.702	-8.102	1.00	0.00	H
ATOM	937	2HH1	ARG A	67157.771	2.749	-8.832	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.268	5.148	-8.383	1.00	0.00	H
ATOM	939	2HH2	ARG A	67155.642	3.570	-8.992	1.00	0.00	H
ATOM	940	N	GLY A	68162.423	5.240	-2.048	1.00	0.00	N
ATOM	941	CA	GLY A	68163.387	5.909	-1.192	1.00	0.00	C
ATOM	942	C	GLY A	68162.806	7.129	-0.505	1.00	0.00	C
ATOM	943	O	GLY A	68163.530	8.071	-0.184	1.00	0.00	O



ATOM	944	H	GLY A	68162.009	4.402	-1.755	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.726	5.212	-0.440	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.232	6.214	-1.791	1.00	0.00	H
ATOM	947	N	THR A	69161.497	7.111	-0.279	1.00	0.00	N
ATOM	948	CA	THR A	69160.818	8.224	0.375	1.00	0.00	C
ATOM	949	C	THR A	69159.927	7.727	1.509	1.00	0.00	C
ATOM	950	O	THR A	69158.778	7.344	1.285	1.00	0.00	O
ATOM	951	CB	THR A	69159.985	9.007	-0.640	1.00	0.00	C
ATOM	952	OG1	THR A	69160.757	9.328	-1.783	1.00	0.00	O
ATOM	953	CG2	THR A	69159.427	10.300	-0.085	1.00	0.00	C
ATOM	954	H	THR A	69160.974	6.330	-0.558	1.00	0.00	H
ATOM	955	HA	THR A	69161.575	8.876	0.786	1.00	0.00	H
ATOM	956	HB	THR A	69159.152	8.396	-0.954	1.00	0.00	H
ATOM	957	HG1	THR A	69161.481	9.905	-1.529	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.229	11.013	0.043	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.958	10.110	0.869	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.696	10.701	-0.772	1.00	0.00	H
ATOM	961	N	ARG A	70160.463	7.737	2.725	1.00	0.00	N
ATOM	962	CA	ARG A	70159.714	7.288	3.893	1.00	0.00	C
ATOM	963	C	ARG A	70158.456	8.127	4.089	1.00	0.00	C
ATOM	964	O	ARG A	70158.505	9.357	4.042	1.00	0.00	O
ATOM	965	CB	ARG A	70160.591	7.360	5.145	1.00	0.00	C
ATOM	966	CG	ARG A	70159.921	6.798	6.388	1.00	0.00	C
ATOM	967	CD	ARG A	70160.262	7.616	7.624	1.00	0.00	C
ATOM	968	NE	ARG A	70161.583	7.285	8.153	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.985	7.587	9.384	1.00	0.00	C
ATOM	970	NH1	ARG A	70161.174	8.226	10.218	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.204	7.249	9.785	1.00	0.00	N
ATOM	972	H	ARG A	70161.383	8.055	2.839	1.00	0.00	H
ATOM	973	HA	ARG A	70159.425	6.262	3.725	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.498	6.802	4.968	1.00	0.00	H

ATOM	975	2HB	ARG	A	70160.844	8.393	5.333	1.00	0.00	H
ATOM	976	1HG	ARG	A	70158.851	6.810	6.246	1.00	0.00	H
ATOM	977	2HG	ARG	A	70160.254	5.782	6.537	1.00	0.00	H
ATOM	978	1HD	ARG	A	70160.242	8.664	7.362	1.00	0.00	H
ATOM	979	2HD	ARG	A	70159.520	7.421	8.385	1.00	0.00	H
ATOM	980	HE	ARG	A	70162.202	6.813	7.558	1.00	0.00	H
ATOM	981	1HH1	ARG	A	70160.255	8.484	9.923	1.00	0.00	H
ATOM	982	2HH1	ARG	A	70161.483	8.450	11.143	1.00	0.00	H
ATOM	983	1HH2	ARG	A	70163.819	6.766	9.161	1.00	0.00	H
ATOM	984	2HH2	ARG	A	70163.506	7.476	10.710	1.00	0.00	H
ATOM	985	N	TYR	A	71157.331	7.456	4.312	1.00	0.00	N
ATOM	986	CA	TYR	A	71156.060	8.139	4.517	1.00	0.00	C
ATOM	987	C	TYR	A	71155.495	7.835	5.900	1.00	0.00	C
ATOM	988	O	TYR	A	71154.967	8.719	6.574	1.00	0.00	O
ATOM	989	CB	TYR	A	71155.055	7.724	3.441	1.00	0.00	C
ATOM	990	CG	TYR	A	71155.279	8.403	2.108	1.00	0.00	C
ATOM	991	CD1	TYR	A	71155.301	7.670	0.928	1.00	0.00	C
ATOM	992	CD2	TYR	A	71155.468	9.777	2.029	1.00	0.00	C
ATOM	993	CE1	TYR	A	71155.505	8.285	-0.292	1.00	0.00	C
ATOM	994	CE2	TYR	A	71155.673	10.400	0.813	1.00	0.00	C
ATOM	995	CZ	TYR	A	71155.691	9.650	-0.344	1.00	0.00	C
ATOM	996	OH	TYR	A	71155.894	10.268	-1.557	1.00	0.00	O
ATOM	997	H	TYR	A	71157.357	6.477	4.339	1.00	0.00	H
ATOM	998	HA	TYR	A	71156.238	9.202	4.440	1.00	0.00	H
ATOM	999	1HB	TYR	A	71155.124	6.659	3.285	1.00	0.00	H
ATOM	1000	2HB	TYR	A	71154.058	7.970	3.776	1.00	0.00	H
ATOM	1001	HD1	TYR	A	71155.154	6.600	0.972	1.00	0.00	H
ATOM	1002	HD2	TYR	A	71155.455	10.361	2.938	1.00	0.00	H
ATOM	1003	HE1	TYR	A	71155.518	7.697	-1.198	1.00	0.00	H
ATOM	1004	HE2	TYR	A	71155.819	11.470	0.773	1.00	0.00	H
ATOM	1005	HH	TYR	A	71155.302	9.892	-2.211	1.00	0.00	H

ATOM	1006	N	PHE A	72155.611	6.579	6.318	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.112	6.157	7.621	1.00	0.00	C
ATOM	1008	C	PHE A	72156.066	5.160	8.272	1.00	0.00	C
ATOM	1009	O	PHE A	72157.112	4.833	7.714	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.722	5.534	7.482	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.649	4.455	6.439	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.791	3.123	6.790	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.438	4.775	5.107	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.725	2.128	5.833	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.372	3.785	4.145	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.514	2.459	4.509	1.00	0.00	C
ATOM	1017	H	PHE A	72156.042	5.919	5.734	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.043	7.033	8.248	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.433	5.101	8.427	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.015	6.305	7.214	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.956	2.862	7.826	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.327	5.810	4.822	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.837	1.093	6.120	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.206	4.046	3.111	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.462	1.684	3.759	1.00	0.00	H
ATOM	1026	N	THR A	73155.696	4.680	9.455	1.00	0.00	N
ATOM	1027	CA	THR A	73156.517	3.720	10.183	1.00	0.00	C
ATOM	1028	C	THR A	73155.799	2.383	10.319	1.00	0.00	C
ATOM	1029	O	THR A	73154.786	2.279	11.012	1.00	0.00	O
ATOM	1030	CB	THR A	73156.871	4.267	11.568	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.291	5.617	11.483	1.00	0.00	O
ATOM	1032	CG2	THR A	73157.970	3.486	12.256	1.00	0.00	C
ATOM	1033	H	THR A	73154.849	4.980	9.849	1.00	0.00	H
ATOM	1034	HA	THR A	73157.428	3.571	9.622	1.00	0.00	H
ATOM	1035	HB	THR A	73155.992	4.223	12.195	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.505	5.942	12.360	1.00	0.00	H

ATOM 1037 1HG2 THR A 73157.585 2.531 12.580 1.00 0.00 H  
 ATOM 1038 2HG2 THR A 73158.323 4.041 13.112 1.00 0.00 H  
 ATOM 1039 3HG2 THR A 73158.786 3.330 11.567 1.00 0.00 H  
 ATOM 1040 N CYS A 74156.329 1.361 9.655 1.00 0.00 N  
 ATOM 1041 CA CYS A 74155.737 0.029 9.702 1.00 0.00 C  
 ATOM 1042 C CYS A 74156.817 -1.040 9.840 1.00 0.00 C  
 ATOM 1043 O CYS A 74158.004 -0.730 9.941 1.00 0.00 O  
 ATOM 1044 CB CYS A 74154.907 -0.228 8.444 1.00 0.00 C  
 ATOM 1045 SG CYS A 74153.174 0.266 8.590 1.00 0.00 S  
 ATOM 1046 H CYS A 74157.138 1.507 9.120 1.00 0.00 H  
 ATOM 1047 HA CYS A 74155.091 -0.015 10.565 1.00 0.00 H  
 ATOM 1048 1HB CYS A 74155.336 0.323 7.619 1.00 0.00 H  
 ATOM 1049 2HB CYS A 74154.931 -1.283 8.216 1.00 0.00 H  
 ATOM 1050 HG CYS A 74152.822 0.378 7.704 1.00 0.00 H  
 ATOM 1051 N ALA A 75156.395 -2.300 9.846 1.00 0.00 N  
 ATOM 1052 CA ALA A 75157.325 -3.416 9.972 1.00 0.00 C  
 ATOM 1053 C ALA A 75158.145 -3.594 8.699 1.00 0.00 C  
 ATOM 1054 O ALA A 75158.032 -2.806 7.760 1.00 0.00 O  
 ATOM 1055 CB ALA A 75156.570 -4.697 10.298 1.00 0.00 C  
 ATOM 1056 H ALA A 75155.436 -2.485 9.762 1.00 0.00 H  
 ATOM 1057 HA ALA A 75157.993 -3.201 10.792 1.00 0.00 H  
 ATOM 1058 1HB ALA A 75157.083 -5.539 9.858 1.00 0.00 H  
 ATOM 1059 2HB ALA A 75155.569 -4.637 9.898 1.00 0.00 H  
 ATOM 1060 3HB ALA A 75156.524 -4.823 11.370 1.00 0.00 H  
 ATOM 1061 N LEU A 76158.971 -4.635 8.674 1.00 0.00 N  
 ATOM 1062 CA LEU A 76159.811 -4.917 7.515 1.00 0.00 C  
 ATOM 1063 C LEU A 76159.123 -5.895 6.570 1.00 0.00 C  
 ATOM 1064 O LEU A 76158.480 -6.849 7.006 1.00 0.00 O  
 ATOM 1065 CB LEU A 76161.160 -5.485 7.963 1.00 0.00 C  
 ATOM 1066 CG LEU A 76162.133 -4.460 8.547 1.00 0.00 C  
 ATOM 1067 CD1 LEU A 76162.958 -5.082 9.663 1.00 0.00 C

ATOM	1068	CD2	LEU A	76163.038	-3.905	7.458	1.00	0.00	C
ATOM	1069	H	LEU A	76159.017	-5.228	9.452	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.978	-3.986	6.994	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.975	-6.244	8.710	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.631	-5.950	7.111	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.571	-3.638	8.968	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.035	-6.147	9.503	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.480	-4.894	10.612	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.947	-4.647	9.665	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.015	-3.701	7.871	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.614	-2.992	7.068	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.128	-4.628	6.661	1.00	0.00	H
ATOM	1080	N	LYS A	77159.263	-5.652	5.270	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.655	-6.512	4.261	1.00	0.00	C
ATOM	1082	C	LYS A	77157.137	-6.531	4.405	1.00	0.00	C
ATOM	1083	O	LYS A	77156.502	-7.576	4.257	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.210	-7.934	4.373	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.709	-8.021	4.143	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.055	-7.890	2.668	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.333	-7.091	2.465	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.972	-7.390	1.154	1.00	0.00	N
ATOM	1089	H	LYS A	77159.788	-4.875	4.983	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.908	-6.113	3.291	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.996	-8.315	5.361	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.718	-8.558	3.642	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.195	-7.226	4.688	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.064	-8.976	4.502	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.189	-8.876	2.250	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.243	-7.389	2.161	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.095	-6.038	2.507	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.024	-7.335	3.258	1.00	0.00	H

ATOM	1099	1HZ	LYS A	77162.327	-7.144	0.376	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.202	-8.403	1.090	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.849	-6.841	1.050	1.00	0.00	H
ATOM	1102	N	LYS A	78156.560	-5.370	4.693	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.116	-5.253	4.857	1.00	0.00	C
ATOM	1104	C	LYS A	78154.630	-3.873	4.421	1.00	0.00	C
ATOM	1105	O	LYS A	78153.775	-3.271	5.071	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.723	-5.509	6.313	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.187	-6.857	6.841	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.862	-7.020	8.316	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.595	-7.837	8.520	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.784	-7.328	9.660	1.00	0.00	N
ATOM	1111	H	LYS A	78157.120	-4.572	4.799	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.650	-5.999	4.230	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.154	-4.737	6.932	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.648	-5.465	6.397	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.694	-7.640	6.284	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.256	-6.937	6.706	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.684	-7.521	8.803	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.723	-6.042	8.754	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.003	-7.789	7.619	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.872	-8.862	8.715	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.943	-6.307	9.784	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.051	-7.818	10.537	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78151.773	-7.491	9.480	1.00	0.00	H
ATOM	1124	N	ALAA	79155.181	-3.379	3.318	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.803	-2.071	2.796	1.00	0.00	C
ATOM	1126	C	ALAA	79154.667	-2.103	1.279	1.00	0.00	C
ATOM	1127	O	ALAA	79155.662	-2.180	0.557	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.824	-1.022	3.215	1.00	0.00	C
ATOM	1129	H	ALAA	79155.857	-3.906	2.844	1.00	0.00	H

ATOM	1130	HA	ALAA	79153.850	-1.803	3.228	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.952	-1.053	4.287	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.475	-0.043	2.921	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.768	-1.228	2.733	1.00	0.00	H
ATOM	1134	N	LEUA	80153.429	-2.045	0.799	1.00	0.00	N
ATOM	1135	CA	LEUA	80153.162	-2.068	-0.635	1.00	0.00	C
ATOM	1136	C	LEUA	80152.294	-0.883	-1.044	1.00	0.00	C
ATOM	1137	O	LEUA	80151.115	-0.813	-0.696	1.00	0.00	O
ATOM	1138	CB	LEUA	80152.475	-3.378	-1.024	1.00	0.00	C
ATOM	1139	CG	LEUA	80152.077	-3.487	-2.498	1.00	0.00	C
ATOM	1140	CD1	LEUA	80153.312	-3.525	-3.383	1.00	0.00	C
ATOM	1141	CD2	LEUA	80151.216	-4.721	-2.725	1.00	0.00	C
ATOM	1142	H	LEUA	80152.678	-1.984	1.424	1.00	0.00	H
ATOM	1143	HA	LEUA	80154.108	-2.001	-1.149	1.00	0.00	H
ATOM	1144	1HB	LEUA	80153.144	-4.194	-0.792	1.00	0.00	H
ATOM	1145	2HB	LEUA	80151.583	-3.485	-0.425	1.00	0.00	H
ATOM	1146	HG	LEUA	80151.496	-2.618	-2.771	1.00	0.00	H
ATOM	1147	1HD1	LEUA	80154.114	-2.982	-2.904	1.00	0.00	H
ATOM	1148	2HD1	LEUA	80153.086	-3.068	-4.335	1.00	0.00	H
ATOM	1149	3HD1	LEUA	80153.613	-4.550	-3.536	1.00	0.00	H
ATOM	1150	1HD2	LEUA	80151.834	-5.604	-2.676	1.00	0.00	H
ATOM	1151	2HD2	LEUA	80150.752	-4.660	-3.698	1.00	0.00	H
ATOM	1152	3HD2	LEUA	80150.452	-4.773	-1.964	1.00	0.00	H
ATOM	1153	N	PHEA	81152.886	0.049	-1.786	1.00	0.00	N
ATOM	1154	CA	PHEA	81152.167	1.232	-2.243	1.00	0.00	C
ATOM	1155	C	PHEA	81151.408	0.942	-3.534	1.00	0.00	C
ATOM	1156	O	PHEA	81151.925	0.285	-4.437	1.00	0.00	O
ATOM	1157	CB	PHEA	81153.139	2.393	-2.461	1.00	0.00	C
ATOM	1158	CG	PHEA	81153.718	2.937	-1.186	1.00	0.00	C
ATOM	1159	CD1	PHEA	81154.880	2.404	-0.654	1.00	0.00	C
ATOM	1160	CD2	PHEA	81153.100	3.984	-0.521	1.00	0.00	C

ATOM	1161	CE1	PHE A	81155.415	2.903	0.518	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.630	4.488	0.653	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.790	3.946	1.172	1.00	0.00	C
ATOM	1164	H	PHE A	81153.828	-0.063	-2.032	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.458	1.506	-1.477	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.957	2.058	-3.080	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.621	3.198	-2.962	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.371	1.588	-1.165	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.193	4.409	-0.926	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.321	2.477	0.923	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.139	5.304	1.161	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.206	4.337	2.088	1.00	0.00	H
ATOM	1173	N	VAL A	82150.176	1.437	-3.615	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.347	1.232	-4.795	1.00	0.00	C
ATOM	1175	C	VAL A	82148.458	2.442	-5.060	1.00	0.00	C
ATOM	1176	O	VAL A	82148.317	3.319	-4.209	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.459	-0.019	-4.649	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.301	-1.283	-4.728	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.677	0.030	-3.346	1.00	0.00	C
ATOM	1180	H	VAL A	82149.818	1.954	-2.863	1.00	0.00	H
ATOM	1181	HA	VAL A	82150.001	1.086	-5.642	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.754	-0.032	-5.468	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.619	-1.442	-5.747	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.713	-2.128	-4.398	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82150.168	-1.179	-4.092	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82148.342	-0.166	-2.518	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.896	-0.717	-3.366	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.235	1.008	-3.228	1.00	0.00	H
ATOM	1189	N	LYS A	83147.860	2.481	-6.246	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.984	3.584	-6.625	1.00	0.00	C
ATOM	1191	C	LYS A	83145.701	3.570	-5.803	1.00	0.00	C



ATOM 1192 O LYS A 83144.952 2.594 -5.815 1.00 0.00 O  
 ATOM 1193 CB LYS A 83146.650 3.507 -8.115 1.00 0.00 C  
 ATOM 1194 CG LYS A 83147.877 3.518 -9.012 1.00 0.00 C  
 ATOM 1195 CD LYS A 83147.699 2.598 -10.210 1.00 0.00 C  
 ATOM 1196 CE LYS A 83148.182 3.252 -11.495 1.00 0.00 C  
 ATOM 1197 NZ LYS A 83149.098 2.362 -12.260 1.00 0.00 N  
 ATOM 1198 H LYS A 83148.011 1.751 -6.882 1.00 0.00 H  
 ATOM 1199 HA LYS A 83147.509 4.506 -6.432 1.00 0.00 H  
 ATOM 1200 1HB LYS A 83146.101 2.596 -8.302 1.00 0.00 H  
 ATOM 1201 2HB LYS A 83146.031 4.351 -8.378 1.00 0.00 H  
 ATOM 1202 1HG LYS A 83148.044 4.525 -9.365 1.00 0.00 H  
 ATOM 1203 2HG LYS A 83148.733 3.188 -8.440 1.00 0.00 H  
 ATOM 1204 1HD LYS A 83148.264 1.694 -10.044 1.00 0.00 H  
 ATOM 1205 2HD LYS A 83146.651 2.357 -10.311 1.00 0.00 H  
 ATOM 1206 1HE LYS A 83147.325 3.484 -12.111 1.00 0.00 H  
 ATOM 1207 2HE LYS A 83148.704 4.165 -11.247 1.00 0.00 H  
 ATOM 1208 1HZ LYS A 83148.594 1.502 -12.560 1.00 0.00 H  
 ATOM 1209 2HZ LYS A 83149.906 2.086 -11.667 1.00 0.00 H  
 ATOM 1210 3HZ LYS A 83149.455 2.855 -13.104 1.00 0.00 H  
 ATOM 1211 N LEU A 84145.454 4.663 -5.090 1.00 0.00 N  
 ATOM 1212 CA LEU A 84144.263 4.786 -4.260 1.00 0.00 C  
 ATOM 1213 C LEU A 84142.997 4.654 -5.102 1.00 0.00 C  
 ATOM 1214 O LEU A 84141.964 4.191 -4.618 1.00 0.00 O  
 ATOM 1215 CB LEU A 84144.267 6.130 -3.530 1.00 0.00 C  
 ATOM 1216 CG LEU A 84143.022 6.415 -2.687 1.00 0.00 C  
 ATOM 1217 CD1 LEU A 84143.083 5.655 -1.372 1.00 0.00 C  
 ATOM 1218 CD2 LEU A 84142.881 7.909 -2.436 1.00 0.00 C  
 ATOM 1219 H LEU A 84146.091 5.408 -5.124 1.00 0.00 H  
 ATOM 1220 HA LEU A 84144.283 3.990 -3.531 1.00 0.00 H  
 ATOM 1221 1HB LEU A 84145.131 6.159 -2.881 1.00 0.00 H  
 ATOM 1222 2HB LEU A 84144.364 6.913 -4.265 1.00 0.00 H

ATOM	1223	HG	LEU A	84142.147	6.081	-3.226	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.280	5.984	-0.729	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.030	5.843	-0.889	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.980	4.597	-1.562	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.983	8.094	-1.866	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.822	8.429	-3.380	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.738	8.263	-1.883	1.00	0.00	H
ATOM	1230	N	LYS A	85143.085	5.064	-6.363	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.947	4.991	-7.271	1.00	0.00	C
ATOM	1232	C	LYS A	85141.531	3.543	-7.511	1.00	0.00	C
ATOM	1233	O	LYS A	85140.366	3.259	-7.790	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.288	5.663	-8.603	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.572	5.147	-9.232	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.681	5.556	-10.693	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.838	4.854	-11.383	1.00	0.00	C
ATOM	1238	NZ	LYS A	85146.048	5.720	-11.459	1.00	0.00	N
ATOM	1239	H	LYS A	85143.936	5.424	-6.691	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.123	5.519	-6.814	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.479	5.492	-9.298	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.394	6.725	-8.441	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.414	5.552	-8.692	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.585	4.069	-9.168	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.763	5.298	-11.199	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.834	6.625	-10.746	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.082	3.960	-10.830	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.534	4.587	-12.385	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.772	6.705	-11.648	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85146.673	5.395	-12.222	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85146.569	5.684	-10.560	1.00	0.00	H
ATOM	1252	N	SER A	86142.491	2.629	-7.401	1.00	0.00	N
ATOM	1253	CA	SER A	86142.223	1.211	-7.606	1.00	0.00	C

ATOM 1254 C SER A 86142.207 0.464 -6.276 1.00 0.00 C  
 ATOM 1255 O SER A 86142.569 -0.710 -6.208 1.00 0.00 O  
 ATOM 1256 CB SER A 86143.274 0.600 -8.535 1.00 0.00 C  
 ATOM 1257 OG SER A 86143.390 1.346 -9.734 1.00 0.00 O  
 ATOM 1258 H SER A 86143.402 2.916 -7.178 1.00 0.00 H  
 ATOM 1259 HA SER A 86141.251 1.121 -8.067 1.00 0.00 H  
 ATOM 1260 1HB SER A 86144.232 0.594 -8.036 1.00 0.00 H  
 ATOM 1261 2HB SER A 86142.988 -0.412 -8.780 1.00 0.00 H  
 ATOM 1262 HG SER A 86143.240 0.769 -10.486 1.00 0.00 H  
 ATOM 1263 N CYSA 87141.785 1.153 -5.221 1.00 0.00 N  
 ATOM 1264 CA CYSA 87141.722 0.555 -3.893 1.00 0.00 C  
 ATOM 1265 C CYSA 87140.276 0.316 -3.471 1.00 0.00 C  
 ATOM 1266 O CYSA 87139.400 1.145 -3.719 1.00 0.00 O  
 ATOM 1267 CB CYSA 87142.421 1.455 -2.872 1.00 0.00 C  
 ATOM 1268 SG CYSA 87144.221 1.289 -2.851 1.00 0.00 S  
 ATOM 1269 H CYSA 87141.509 2.086 -5.339 1.00 0.00 H  
 ATOM 1270 HA CYSA 87142.235 -0.395 -3.932 1.00 0.00 H  
 ATOM 1271 1HB CYSA 87142.190 2.486 -3.095 1.00 0.00 H  
 ATOM 1272 2HB CYSA 87142.056 1.217 -1.884 1.00 0.00 H  
 ATOM 1273 HG CYSA 87144.431 0.366 -2.690 1.00 0.00 H  
 ATOM 1274 N ARG A 88140.033 -0.824 -2.832 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.693 -1.175 -2.374 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.606 -1.111 -0.850 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.568 -1.430 -0.152 1.00 0.00 O  
 ATOM 1278 CB ARG A 88138.315 -2.576 -2.865 1.00 0.00 C  
 ATOM 1279 CG ARG A 88137.224 -2.575 -3.923 1.00 0.00 C  
 ATOM 1280 CD ARG A 88136.190 -3.658 -3.660 1.00 0.00 C  
 ATOM 1281 NE ARG A 88135.005 -3.499 -4.500 1.00 0.00 N  
 ATOM 1282 CZ ARG A 88134.945 -3.874 -5.776 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88135.999 -4.428 -6.363 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88133.828 -3.694 -6.467 1.00 0.00 N

ATOM 1285 H ARG A 88140.773 -1.445 -2.663 1.00 0.00 H  
 ATOM 1286 HA ARG A 88138.004 -0.458 -2.793 1.00 0.00 H  
 ATOM 1287 1HB ARG A 88139.193 -3.047 -3.284 1.00 0.00 H  
 ATOM 1288 2HB ARG A 88137.972 -3.160 -2.024 1.00 0.00 H  
 ATOM 1289 1HG ARG A 88136.733 -1.614 -3.919 1.00 0.00 H  
 ATOM 1290 2HG ARG A 88137.675 -2.747 -4.890 1.00 0.00 H  
 ATOM 1291 1HD ARG A 88136.636 -4.620 -3.862 1.00 0.00 H  
 ATOM 1292 2HD ARG A 88135.894 -3.611 -2.622 1.00 0.00 H  
 ATOM 1293 HE ARG A 88134.212 -3.092 -4.092 1.00 0.00 H  
 ATOM 1294 1HH1 ARG A 88136.844 -4.567 -5.847 1.00 0.00 H  
 ATOM 1295 2HH1 ARG A 88135.947 -4.708 -7.321 1.00 0.00 H  
 ATOM 1296 1HH2 ARG A 88133.031 -3.277 -6.031 1.00 0.00 H  
 ATOM 1297 2HH2 ARG A 88133.783 -3.975 -7.426 1.00 0.00 H  
 ATOM 1298 N PRO A 89137.446 -0.698 -0.311 1.00 0.00 N  
 ATOM 1299 CA PRO A 89137.243 -0.598 1.132 1.00 0.00 C  
 ATOM 1300 C PRO A 89137.003 -1.956 1.779 1.00 0.00 C  
 ATOM 1301 O PRO A 89135.933 -2.547 1.629 1.00 0.00 O  
 ATOM 1302 CB PRO A 89135.998 0.280 1.252 1.00 0.00 C  
 ATOM 1303 CG PRO A 89135.237 0.053 -0.007 1.00 0.00 C  
 ATOM 1304 CD PRO A 89136.244 -0.301 -1.068 1.00 0.00 C  
 ATOM 1305 HA PRO A 89138.077 -0.112 1.616 1.00 0.00 H  
 ATOM 1306 1HB PRO A 89135.427 -0.025 2.113 1.00 0.00 H  
 ATOM 1307 2HB PRO A 89136.291 1.314 1.355 1.00 0.00 H  
 ATOM 1308 1HG PRO A 89134.540 -0.760 0.131 1.00 0.00 H  
 ATOM 1309 2HG PRO A 89134.708 0.955 -0.280 1.00 0.00 H  
 ATOM 1310 1HD PRO A 89135.880 -1.123 -1.662 1.00 0.00 H  
 ATOM 1311 2HD PRO A 89136.449 0.555 -1.694 1.00 0.00 H  
 ATOM 1312 N ASPA 90138.005 -2.448 2.500 1.00 0.00 N  
 ATOM 1313 CA ASPA 90137.904 -3.738 3.170 1.00 0.00 C  
 ATOM 1314 C ASPA 90136.864 -3.694 4.284 1.00 0.00 C  
 ATOM 1315 O ASPA 90136.879 -2.797 5.127 1.00 0.00 O

ATOM	1316	CB	ASP A	90139.264	-4.144	3.744	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.447	-5.649	3.787	1.00	0.00	C
ATOM	1318	OD1	ASP A	90138.703	-6.359	3.077	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.334	-6.118	4.530	1.00	0.00	O
ATOM	1320	H	ASP A	90138.833	-1.929	2.582	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.600	-4.469	2.438	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.046	-3.723	3.130	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.353	-3.759	4.749	1.00	0.00	H
ATOM	1324	N	SER A	91135.959	-4.668	4.280	1.00	0.00	N
ATOM	1325	CA	SER A	91134.910	-4.741	5.290	1.00	0.00	C
ATOM	1326	C	SER A	91135.155	-5.905	6.245	1.00	0.00	C
ATOM	1327	O	SER A	91134.212	-6.499	6.769	1.00	0.00	O
ATOM	1328	CB	SER A	91133.542	-4.891	4.625	1.00	0.00	C
ATOM	1329	OG	SER A	91132.523	-4.303	5.413	1.00	0.00	O
ATOM	1330	H	SER A	91136.000	-5.354	3.582	1.00	0.00	H
ATOM	1331	HA	SER A	91134.928	-3.820	5.853	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.558	-4.407	3.660	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.320	-5.940	4.497	1.00	0.00	H
ATOM	1334	HG	SER A	91132.485	-3.359	5.235	1.00	0.00	H
ATOM	1335	N	ARG A	92136.425	-6.227	6.465	1.00	0.00	N
ATOM	1336	CA	ARG A	92136.792	-7.322	7.357	1.00	0.00	C
ATOM	1337	C	ARG A	92136.427	-6.995	8.800	1.00	0.00	C
ATOM	1338	O	ARG A	92136.114	-7.886	9.589	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.291	-7.612	7.249	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.675	-8.368	5.988	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.939	-9.187	6.192	1.00	0.00	C
ATOM	1342	NE	ARG A	92139.696	-10.375	7.006	1.00	0.00	N
ATOM	1343	CZ	ARG A	92140.512	-11.425	7.047	1.00	0.00	C
ATOM	1344	NH1	ARG A	92141.626	-11.438	6.323	1.00	0.00	N
ATOM	1345	NH2	ARG A	92140.217	-12.465	7.815	1.00	0.00	N
ATOM	1346	H	ARG A	92137.132	-5.717	6.018	1.00	0.00	H

ATOM	1347	HA	ARG A	92136.242	-8.197	7.048	1.00	0.00	H
ATOM	1348	1HB	ARG A	92138.829	-6.676	7.260	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.593	-8.201	8.102	1.00	0.00	H
ATOM	1350	1HG	ARG A	92137.868	-9.032	5.718	1.00	0.00	H
ATOM	1351	2HG	ARG A	92138.841	-7.658	5.191	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.314	-9.494	5.227	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.676	-8.569	6.684	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.881	-10.392	7.551	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92141.854	-10.657	5.742	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92142.235	-12.231	6.359	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92139.380	-12.460	8.362	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92140.831	-13.254	7.846	1.00	0.00	H
ATOM	1359	N	PHE A	93136.471	-5.710	9.141	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.145	-5.267	10.491	1.00	0.00	C
ATOM	1361	C	PHE A	93135.088	-4.167	10.466	1.00	0.00	C
ATOM	1362	O	PHE A	93135.035	-3.324	11.363	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.403	-4.764	11.203	1.00	0.00	C
ATOM	1364	CG	PHE A	93138.417	-5.841	11.463	1.00	0.00	C
ATOM	1365	CD1	PHE A	93138.403	-6.550	12.655	1.00	0.00	C
ATOM	1366	CD2	PHE A	93139.383	-6.145	10.518	1.00	0.00	C
ATOM	1367	CE1	PHE A	93139.336	-7.542	12.897	1.00	0.00	C
ATOM	1368	CE2	PHE A	93140.317	-7.135	10.755	1.00	0.00	C
ATOM	1369	CZ	PHE A	93140.293	-7.834	11.947	1.00	0.00	C
ATOM	1370	H	PHE A	93136.729	-5.045	8.469	1.00	0.00	H
ATOM	1371	HA	PHE A	93135.752	-6.114	11.033	1.00	0.00	H
ATOM	1372	1HB	PHE A	93137.873	-4.006	10.594	1.00	0.00	H
ATOM	1373	2HB	PHE A	93137.122	-4.333	12.153	1.00	0.00	H
ATOM	1374	HD1	PHE A	93137.654	-6.322	13.398	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.403	-5.599	9.587	1.00	0.00	H
ATOM	1376	HE1	PHE A	93139.315	-8.086	13.830	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.066	-7.362	10.010	1.00	0.00	H

ATOM 1378 HZ PHE A 93141.023 -8.608 12.134 1.00 0.00 H  
 ATOM 1379 N ALAA 94134.248 -4.179 9.436 1.00 0.00 N  
 ATOM 1380 CA ALAA 94133.194 -3.181 9.298 1.00 0.00 C  
 ATOM 1381 C ALAA 94131.841 -3.752 9.711 1.00 0.00 C  
 ATOM 1382 O ALAA 94131.381 -4.748 9.154 1.00 0.00 O  
 ATOM 1383 CB ALAA 94133.139 -2.667 7.869 1.00 0.00 C  
 ATOM 1384 H ALAA 94134.339 -4.875 8.752 1.00 0.00 H  
 ATOM 1385 HA ALAA 94133.436 -2.351 9.946 1.00 0.00 H  
 ATOM 1386 1HB ALAA 94134.082 -2.860 7.379 1.00 0.00 H  
 ATOM 1387 2HB ALAA 94132.950 -1.603 7.877 1.00 0.00 H  
 ATOM 1388 3HB ALAA 94132.346 -3.169 7.335 1.00 0.00 H  
 ATOM 1389 N SERA 95131.210 -3.113 10.691 1.00 0.00 N  
 ATOM 1390 CA SERA 95129.909 -3.557 11.178 1.00 0.00 C  
 ATOM 1391 C SERA 95128.787 -2.722 10.569 1.00 0.00 C  
 ATOM 1392 O SERA 95128.757 -1.500 10.719 1.00 0.00 O  
 ATOM 1393 CB SERA 95129.855 -3.471 12.704 1.00 0.00 C  
 ATOM 1394 OG SERA 95130.341 -2.221 13.162 1.00 0.00 O  
 ATOM 1395 H SERA 95131.628 -2.324 11.096 1.00 0.00 H  
 ATOM 1396 HA SERA 95129.778 -4.587 10.879 1.00 0.00 H  
 ATOM 1397 1HB SERA 95128.834 -3.588 13.033 1.00 0.00 H  
 ATOM 1398 2HB SERA 95130.462 -4.257 13.129 1.00 0.00 H  
 ATOM 1399 HG SERA 95131.063 -2.362 13.777 1.00 0.00 H  
 ATOM 1400 N LEUA 96127.865 -3.390 9.882 1.00 0.00 N  
 ATOM 1401 CA LEUA 96126.741 -2.709 9.251 1.00 0.00 C  
 ATOM 1402 C LEUA 96125.532 -2.677 10.181 1.00 0.00 C  
 ATOM 1403 O LEUA 96124.737 -1.737 10.150 1.00 0.00 O  
 ATOM 1404 CB LEUA 96126.371 -3.401 7.938 1.00 0.00 C  
 ATOM 1405 CG LEUA 96125.417 -2.614 7.038 1.00 0.00 C  
 ATOM 1406 CD1 LEUA 96125.715 -2.891 5.572 1.00 0.00 C  
 ATOM 1407 CD2 LEUA 96123.972 -2.958 7.364 1.00 0.00 C  
 ATOM 1408 H LEUA 96127.944 -4.363 9.798 1.00 0.00 H

ATOM 1409 HA LEU A 96127.044 -1.695 9.040 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96127.280 -3.590 7.387 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96125.908 -4.349 8.173 1.00 0.00 H  
 ATOM 1412 HG LEU A 96125.558 -1.557 7.212 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96125.101 -3.710 5.230 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96126.757 -3.151 5.460 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96125.498 -2.009 4.987 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96123.911 -3.334 8.374 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96123.617 -3.712 6.678 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96123.361 -2.072 7.272 1.00 0.00 H  
 ATOM 1419 N GLN A 97125.400 -3.710 11.007 1.00 0.00 N  
 ATOM 1420 CA GLN A 97124.288 -3.800 11.946 1.00 0.00 C  
 ATOM 1421 C GLN A 97124.353 -2.675 12.977 1.00 0.00 C  
 ATOM 1422 O GLN A 97125.436 -2.211 13.334 1.00 0.00 O  
 ATOM 1423 CB GLN A 97124.298 -5.156 12.652 1.00 0.00 C  
 ATOM 1424 CG GLN A 97123.726 -6.285 11.811 1.00 0.00 C  
 ATOM 1425 CD GLN A 97124.413 -7.612 12.070 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97123.776 -8.584 12.477 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97125.719 -7.657 11.836 1.00 0.00 N  
 ATOM 1428 H GLN A 97126.066 -4.429 10.985 1.00 0.00 H  
 ATOM 1429 HA GLN A 97123.371 -3.703 11.384 1.00 0.00 H  
 ATOM 1430 1HB GLN A 97125.316 -5.409 12.909 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97123.715 -5.082 13.559 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97122.676 -6.391 12.039 1.00 0.00 H  
 ATOM 1433 2HG GLN A 97123.843 -6.033 10.767 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97126.160 -6.845 11.513 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97126.188 -8.503 11.995 1.00 0.00 H  
 ATOM 1436 N PRO A 98123.189 -2.221 13.472 1.00 0.00 N  
 ATOM 1437 CA PRO A 98123.119 -1.146 14.467 1.00 0.00 C  
 ATOM 1438 C PRO A 98123.998 -1.425 15.682 1.00 0.00 C  
 ATOM 1439 O PRO A 98124.079 -2.557 16.155 1.00 0.00 O



ATOM	1440	CB	PRO A	98121.643	-1.126	14.869	1.00	0.00	C
ATOM	1441	CG	PRO A	98120.923	-1.699	13.698	1.00	0.00	C
ATOM	1442	CD	PRO A	98121.851	-2.719	13.101	1.00	0.00	C
ATOM	1443	HA	PRO A	98123.392	-0.193	14.037	1.00	0.00	H
ATOM	1444	1HB	PRO A	98121.500	-1.727	15.755	1.00	0.00	H
ATOM	1445	2HB	PRO A	98121.334	-0.110	15.062	1.00	0.00	H
ATOM	1446	1HG	PRO A	98120.007	-2.170	14.026	1.00	0.00	H
ATOM	1447	2HG	PRO A	98120.710	-0.921	12.981	1.00	0.00	H
ATOM	1448	1HD	PRO A	98121.669	-3.693	13.531	1.00	0.00	H
ATOM	1449	2HD	PRO A	98121.736	-2.752	12.028	1.00	0.00	H
ATOM	1450	N	SER A	99124.656	-0.383	16.181	1.00	0.00	N
ATOM	1451	CA	SER A	99125.530	-0.515	17.341	1.00	0.00	C
ATOM	1452	C	SER A	99125.438	0.716	18.234	1.00	0.00	C
ATOM	1453	O	SER A	99125.514	1.849	17.757	1.00	0.00	O
ATOM	1454	CB	SER A	99126.977	-0.729	16.894	1.00	0.00	C
ATOM	1455	OG	SER A	99127.645	-1.643	17.748	1.00	0.00	O
ATOM	1456	H	SER A	99124.551	0.495	15.760	1.00	0.00	H
ATOM	1457	HA	SER A	99125.205	-1.378	17.903	1.00	0.00	H
ATOM	1458	1HB	SER A	99126.986	-1.125	15.888	1.00	0.00	H
ATOM	1459	2HB	SER A	99127.501	0.214	16.914	1.00	0.00	H
ATOM	1460	HG	SER A	99127.146	-2.461	17.795	1.00	0.00	H
ATOM	1461	N	GLY A	100125.276	0.488	19.534	1.00	0.00	N
ATOM	1462	CA	GLY A	100125.177	1.590	20.473	1.00	0.00	C
ATOM	1463	C	GLY A	100126.449	1.782	21.279	1.00	0.00	C
ATOM	1464	O	GLY A	100127.322	0.915	21.279	1.00	0.00	O
ATOM	1465	H	GLY A	100125.223	-0.435	19.857	1.00	0.00	H
ATOM	1466	1HA	GLY A	100124.971	2.498	19.926	1.00	0.00	H
ATOM	1467	2HA	GLY A	100124.359	1.397	21.152	1.00	0.00	H
ATOM	1468	N	PRO A	101126.583	2.919	21.983	1.00	0.00	N
ATOM	1469	CA	PRO A	101127.768	3.210	22.797	1.00	0.00	C
ATOM	1470	C	PRO A	101128.098	2.079	23.763	1.00	0.00	C

ATOM	1471	O	PRO A	101129.261	1.853	24.098	1.00	0.00	O
ATOM	1472	CB	PRO A	101127.372	4.472	23.565	1.00	0.00	C
ATOM	1473	CG	PRO A	101126.339	5.126	22.714	1.00	0.00	C
ATOM	1474	CD	PRO A	101125.590	4.010	22.041	1.00	0.00	C
ATOM	1475	HA	PRO A	101128.630	3.417	22.178	1.00	0.00	H
ATOM	1476	1HB	PRO A	101126.974	4.199	24.531	1.00	0.00	H
ATOM	1477	2HB	PRO A	101128.237	5.107	23.691	1.00	0.00	H
ATOM	1478	1HG	PRO A	101125.670	5.708	23.331	1.00	0.00	H
ATOM	1479	2HG	PRO A	101126.814	5.756	21.977	1.00	0.00	H
ATOM	1480	1HD	PRO A	101124.733	3.720	22.631	1.00	0.00	H
ATOM	1481	2HD	PRO A	101125.285	4.304	21.048	1.00	0.00	H
ATOM	1482	N	SER A	102127.066	1.370	24.210	1.00	0.00	N
ATOM	1483	CA	SER A	102127.246	0.261	25.141	1.00	0.00	C
ATOM	1484	C	SER A	102127.156	-1.077	24.416	1.00	0.00	C
ATOM	1485	O	SER A	102126.907	-1.127	23.210	1.00	0.00	O
ATOM	1486	CB	SER A	102126.198	0.324	26.252	1.00	0.00	C
ATOM	1487	OG	SER A	102126.340	-0.761	27.151	1.00	0.00	O
ATOM	1488	H	SER A	102126.162	1.598	23.908	1.00	0.00	H
ATOM	1489	HA	SER A	102128.230	0.353	25.579	1.00	0.00	H
ATOM	1490	1HB	SER A	102126.313	1.247	26.801	1.00	0.00	H
ATOM	1491	2HB	SER A	102125.211	0.286	25.815	1.00	0.00	H
ATOM	1492	HG	SER A	102125.972	-0.521	28.004	1.00	0.00	H
ATOM	1493	N	SER A	103127.358	-2.162	25.157	1.00	0.00	N
ATOM	1494	CA	SER A	103127.298	-3.502	24.584	1.00	0.00	C
ATOM	1495	C	SER A	103127.003	-4.541	25.661	1.00	0.00	C
ATOM	1496	O	SER A	103127.271	-4.320	26.842	1.00	0.00	O
ATOM	1497	CB	SER A	103128.615	-3.838	23.882	1.00	0.00	C
ATOM	1498	OG	SER A	103128.608	-5.168	23.394	1.00	0.00	O
ATOM	1499	H	SER A	103127.552	-2.058	26.112	1.00	0.00	H
ATOM	1500	HA	SER A	103126.499	-3.516	23.858	1.00	0.00	H
ATOM	1501	1HB	SER A	103128.758	-3.165	23.050	1.00	0.00	H

ATOM 1502 2HB SER A 103129.431 -3.727 24.581 1.00 0.00 H  
 ATOM 1503 HG SER A 103127.773 -5.344 22.953 1.00 0.00 H  
 ATOM 1504 N GLY A 104126.448 -5.675 25.246 1.00 0.00 N  
 ATOM 1505 CA GLY A 104126.126 -6.731 26.186 1.00 0.00 C  
 ATOM 1506 C GLY A 104126.008 -8.087 25.519 1.00 0.00 C  
 ATOM 1507 O GLY A 104124.930 -8.384 24.963 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104126.994 -8.853 25.551 1.00 0.00 O  
 ATOM 1509 H GLY A 104126.257 -5.796 24.292 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104126.901 -6.778 26.937 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104125.188 -6.496 26.667 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

### Three-Dimensional Structure Coordinate Table 13

ATOM1 N GLY A 1109.776 8.327 -20.550 1.00 0.00 N  
 ATOM2 CA GLY A 1110.429 7.092 -20.038 1.00 0.00 C  
 ATOM3 C GLY A 1110.587 7.101 -18.531 1.00 0.00 C  
 ATOM4 O GLY A 1110.302 8.105 -17.876 1.00 0.00 O  
 ATOM5 1H GLY A 1110.222 8.624 -21.442 1.00 0.00 H  
 ATOM6 2H GLY A 1109.870 9.095 -19.856 1.00 0.00 H  
 ATOM7 3H GLY A 1108.765 8.152 -20.722 1.00 0.00 H  
 ATOM8 1HA GLY A 1109.832 6.237 -20.321 1.00 0.00 H  
 ATOM9 2HA GLY A 1111.406 6.999 -20.491 1.00 0.00 H  
 ATOM10 N SER A 2111.043 5.982 -17.978 1.00 0.00 N  
 ATOM11 CA SER A 2111.239 5.865 -16.538 1.00 0.00 C  
 ATOM12 C SER A 2112.551 6.516 -16.111 1.00 0.00 C  
 ATOM13 O SER A 2113.614 5.897 -16.184 1.00 0.00 O  
 ATOM14 CB SER A 2111.225 4.394 -16.117 1.00 0.00 C  
 ATOM15 OG SER A 2110.002 3.772 -16.475 1.00 0.00 O  
 ATOM16 H SER A 2111.252 5.217 -18.552 1.00 0.00 H  
 ATOM17 HA SER A 2110.422 6.377 -16.050 1.00 0.00 H

ATOM18 1HB SER A 2112.035 3.874 -16.606 1.00 0.00 H  
 ATOM19 2HB SER A 2111.348 4.328 -15.046 1.00 0.00 H  
 ATOM20 HG SER A 2109.293 4.121 -15.929 1.00 0.00 H  
 ATOM21 N SER A 3112.470 7.766 -15.669 1.00 0.00 N  
 ATOM22 CA SER A 3113.651 8.500 -15.231 1.00 0.00 C  
 ATOM23 C SER A 3114.121 8.012 -13.865 1.00 0.00 C  
 ATOM24 O SER A 3113.652 8.486 -12.831 1.00 0.00 O  
 ATOM25 CB SER A 3113.354 9.999 -15.175 1.00 0.00 C  
 ATOM26 OG SER A 3112.378 10.289 -14.190 1.00 0.00 O  
 ATOM27 H SER A 3111.595 8.205 -15.635 1.00 0.00 H  
 ATOM28 HA SER A 3114.435 8.325 -15.952 1.00 0.00 H  
 ATOM29 1HB SER A 3114.260 10.536 -14.934 1.00 0.00 H  
 ATOM30 2HB SER A 3112.986 10.327 -16.137 1.00 0.00 H  
 ATOM31 HG SER A 3111.624 9.705 -14.304 1.00 0.00 H  
 ATOM32 N GLY A 4115.050 7.061 -13.868 1.00 0.00 N  
 ATOM33 CA GLY A 4115.567 6.524 -12.624 1.00 0.00 C  
 ATOM34 C GLY A 4116.956 7.039 -12.303 1.00 0.00 C  
 ATOM35 O GLY A 4117.941 6.312 -12.437 1.00 0.00 O  
 ATOM36 H GLY A 4115.386 6.721 -14.724 1.00 0.00 H  
 ATOM37 1HA GLY A 4114.899 6.799 -11.821 1.00 0.00 H  
 ATOM38 2HA GLY A 4115.601 5.447 -12.696 1.00 0.00 H  
 ATOM39 N SER A 5117.036 8.296 -11.879 1.00 0.00 N  
 ATOM40 CA SER A 5118.315 8.907 -11.538 1.00 0.00 C  
 ATOM41 C SER A 5118.862 8.335 -10.234 1.00 0.00 C  
 ATOM42 O SER A 5118.354 8.631 -9.153 1.00 0.00 O  
 ATOM43 CB SER A 5118.163 10.425 -11.416 1.00 0.00 C  
 ATOM44 OG SER A 5118.434 11.066 -12.651 1.00 0.00 O  
 ATOM45 H SER A 5116.215 8.824 -11.793 1.00 0.00 H  
 ATOM46 HA SER A 5119.010 8.687 -12.334 1.00 0.00 H  
 ATOM47 1HB SER A 5117.152 10.660 -11.118 1.00 0.00 H  
 ATOM48 2HB SER A 5118.852 10.796 -10.673 1.00 0.00 H

ATOM49 HG SER A 5117.844 10.722 -13.326 1.00 0.00 H  
 ATOM50 N SER A 6119.900 7.513 -10.346 1.00 0.00 N  
 ATOM51 CA SER A 6120.517 6.898 -9.176 1.00 0.00 C  
 ATOM52 C SER A 6121.346 7.916 -8.400 1.00 0.00 C  
 ATOM53 O SER A 6122.263 8.530 -8.945 1.00 0.00 O  
 ATOM54 CB SER A 6121.398 5.721 -9.598 1.00 0.00 C  
 ATOM55 OG SER A 6120.613 4.582 -9.910 1.00 0.00 O  
 ATOM56 H SER A 6120.261 7.315 -11.236 1.00 0.00 H  
 ATOM57 HA SER A 6119.726 6.534 -8.537 1.00 0.00 H  
 ATOM58 1HB SER A 6121.972 5.997 -10.469 1.00 0.00 H  
 ATOM59 2HB SER A 6122.069 5.468 -8.789 1.00 0.00 H  
 ATOM60 HG SER A 6119.941 4.824 -10.552 1.00 0.00 H  
 ATOM61 N GLY A 7121.018 8.090 -7.124 1.00 0.00 N  
 ATOM62 CA GLY A 7121.741 9.034 -6.294 1.00 0.00 C  
 ATOM63 C GLY A 7123.057 8.474 -5.789 1.00 0.00 C  
 ATOM64 O GLY A 7123.371 7.306 -6.020 1.00 0.00 O  
 ATOM65 H GLY A 7120.277 7.572 -6.743 1.00 0.00 H  
 ATOM66 1HA GLY A 7121.940 9.925 -6.871 1.00 0.00 H  
 ATOM67 2HA GLY A 7121.126 9.297 -5.446 1.00 0.00 H  
 ATOM68 N LEU A 8123.827 9.308 -5.098 1.00 0.00 N  
 ATOM69 CA LEU A 8125.116 8.891 -4.559 1.00 0.00 C  
 ATOM70 C LEU A 8125.238 9.269 -3.087 1.00 0.00 C  
 ATOM71 O LEU A 8124.313 9.831 -2.501 1.00 0.00 O  
 ATOM72 CB LEU A 8126.256 9.526 -5.357 1.00 0.00 C  
 ATOM73 CG LEU A 8126.181 9.318 -6.871 1.00 0.00 C  
 ATOM74 CD1 LEU A 8126.778 10.510 -7.604 1.00 0.00 C  
 ATOM75 CD2 LEU A 8126.893 8.035 -7.268 1.00 0.00 C  
 ATOM76 H LEU A 8123.521 10.228 -4.948 1.00 0.00 H  
 ATOM77 HA LEU A 8125.180 7.817 -4.650 1.00 0.00 H  
 ATOM78 1HB LEU A 8126.257 10.589 -5.160 1.00 0.00 H  
 ATOM79 2HB LEU A 8127.188 9.111 -5.006 1.00 0.00 H

ATOM80 HG LEU A 8125.145 9.233 -7.165 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8126.595 10.410 -8.663 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8127.842 10.547 -7.424 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8126.321 11.420 -7.243 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8127.032 8.016 -8.338 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8126.298 7.185 -6.968 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8127.855 7.991 -6.778 1.00 0.00 H  
 ATOM87 N ALAA 9126.386 8.956 -2.494 1.00 0.00 N  
 ATOM88 CA ALAA 9126.629 9.263 -1.089 1.00 0.00 C  
 ATOM89 C ALAA 9128.123 9.319 -0.790 1.00 0.00 C  
 ATOM90 O ALAA 9128.784 8.286 -0.684 1.00 0.00 O  
 ATOM91 CB ALAA 9125.948 8.234 -0.200 1.00 0.00 C  
 ATOM92 H ALAA 9127.085 8.509 -3.014 1.00 0.00 H  
 ATOM93 HA ALAA 9126.193 10.230 -0.879 1.00 0.00 H  
 ATOM94 1HB ALAA 9126.527 8.100 0.702 1.00 0.00 H  
 ATOM95 2HB ALAA 9125.879 7.293 -0.726 1.00 0.00 H  
 ATOM96 3HB ALAA 9124.957 8.578 0.056 1.00 0.00 H  
 ATOM97 N META 10128.649 10.532 -0.656 1.00 0.00 N  
 ATOM98 CA META 10130.065 10.723 -0.368 1.00 0.00 C  
 ATOM99 C META 10130.375 12.196 -0.106 1.00 0.00 C  
 ATOM 100 O META 10131.055 12.848 -0.897 1.00 0.00 O  
 ATOM 101 CB META 10130.917 10.208 -1.531 1.00 0.00 C  
 ATOM 102 CG META 10130.463 10.718 -2.889 1.00 0.00 C  
 ATOM 103 SD META 10130.805 9.549 -4.219 1.00 0.00 S  
 ATOM 104 CE META 10131.247 10.668 -5.547 1.00 0.00 C  
 ATOM 105 H META 10128.071 11.318 -0.752 1.00 0.00 H  
 ATOM 106 HA META 10130.303 10.155 0.519 1.00 0.00 H  
 ATOM 107 1HB META 10131.940 10.518 -1.378 1.00 0.00 H  
 ATOM 108 2HB META 10130.875 9.129 -1.544 1.00 0.00 H  
 ATOM 109 1HG META 10129.399 10.900 -2.854 1.00 0.00 H  
 ATOM 110 2HG META 10130.978 11.644 -3.101 1.00 0.00 H

ATOM	111	1HE	MET A	10131.070	10.186	-6.498	1.00	0.00	H
ATOM	112	2HE	MET A	10132.292	10.929	-5.464	1.00	0.00	H
ATOM	113	3HE	MET A	10130.646	11.563	-5.479	1.00	0.00	H
ATOM	114	N	PRO A	11129.875	12.741	1.016	1.00	0.00	N
ATOM	115	CA	PRO A	11130.099	14.144	1.382	1.00	0.00	C
ATOM	116	C	PRO A	11131.584	14.494	1.481	1.00	0.00	C
ATOM	117	O	PRO A	11132.022	15.511	0.943	1.00	0.00	O
ATOM	118	CB	PRO A	11129.422	14.281	2.749	1.00	0.00	C
ATOM	119	CG	PRO A	11128.447	13.156	2.814	1.00	0.00	C
ATOM	120	CD	PRO A	11129.052	12.036	2.016	1.00	0.00	C
ATOM	121	HA	PRO A	11129.625	14.812	0.676	1.00	0.00	H
ATOM	122	1HB	PRO A	11130.163	14.208	3.530	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.923	15.237	2.810	1.00	0.00	H
ATOM	124	1HG	PRO A	11128.307	12.850	3.840	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.506	13.459	2.380	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.664	11.409	2.646	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.279	11.453	1.535	1.00	0.00	H
ATOM	128	N	PRO A	12132.385	13.659	2.172	1.00	0.00	N
ATOM	129	CA	PRO A	12133.818	13.901	2.329	1.00	0.00	C
ATOM	130	C	PRO A	12134.619	13.477	1.102	1.00	0.00	C
ATOM	131	O	PRO A	12135.603	14.120	0.738	1.00	0.00	O
ATOM	132	CB	PRO A	12134.181	13.034	3.531	1.00	0.00	C
ATOM	133	CG	PRO A	12133.233	11.887	3.465	1.00	0.00	C
ATOM	134	CD	PRO A	12131.961	12.417	2.853	1.00	0.00	C
ATOM	135	HA	PRO A	12134.024	14.938	2.554	1.00	0.00	H
ATOM	136	1HB	PRO A	12135.207	12.707	3.447	1.00	0.00	H
ATOM	137	2HB	PRO A	12134.051	13.600	4.442	1.00	0.00	H
ATOM	138	1HG	PRO A	12133.647	11.106	2.844	1.00	0.00	H
ATOM	139	2HG	PRO A	12133.041	11.512	4.460	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.563	11.708	2.144	1.00	0.00	H
ATOM	141	2HD	PRO A	12131.234	12.629	3.622	1.00	0.00	H

ATOM	142	N	GLY A	13134.188	12.392	0.467	1.00	0.00	N
ATOM	143	CA	GLY A	13134.875	11.901	-0.713	1.00	0.00	C
ATOM	144	C	GLY A	13135.010	10.391	-0.720	1.00	0.00	C
ATOM	145	O	GLY A	13134.551	9.716	0.201	1.00	0.00	O
ATOM	146	H	GLY A	13133.397	11.920	0.804	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.324	12.206	-1.589	1.00	0.00	H
ATOM	148	2HA	GLY A	13135.861	12.340	-0.749	1.00	0.00	H
ATOM	149	N	ASNA	14135.641	9.860	-1.761	1.00	0.00	N
ATOM	150	CA	ASNA	14135.837	8.420	-1.885	1.00	0.00	C
ATOM	151	C	ASNA	14134.497	7.691	-1.923	1.00	0.00	C
ATOM	152	O	ASNA	14133.438	8.314	-1.851	1.00	0.00	O
ATOM	153	CB	ASNA	14136.683	7.898	-0.723	1.00	0.00	C
ATOM	154	CG	ASNA	14138.135	8.322	-0.829	1.00	0.00	C
ATOM	155	OD1	ASNA	14138.617	8.665	-1.908	1.00	0.00	O
ATOM	156	ND2	ASNA	14138.841	8.302	0.296	1.00	0.00	N
ATOM	157	H	ASNA	14135.985	10.452	-2.464	1.00	0.00	H
ATOM	158	HA	ASNA	14136.360	8.236	-2.811	1.00	0.00	H
ATOM	159	1HB	ASNA	14136.283	8.277	0.205	1.00	0.00	H
ATOM	160	2HB	ASNA	14136.642	6.818	-0.714	1.00	0.00	H
ATOM	161	1HD2	ASNA	14138.392	8.017	1.119	1.00	0.00	H
ATOM	162	2HD2	ASNA	14139.782	8.571	0.257	1.00	0.00	H
ATOM	163	N	SERA	15134.553	6.368	-2.035	1.00	0.00	N
ATOM	164	CA	SERA	15133.345	5.554	-2.081	1.00	0.00	C
ATOM	165	C	SERA	15132.712	5.439	-0.698	1.00	0.00	C
ATOM	166	O	SERA	15131.601	5.916	-0.471	1.00	0.00	O
ATOM	167	CB	SERA	15133.664	4.161	-2.626	1.00	0.00	C
ATOM	168	OG	SERA	15132.515	3.330	-2.608	1.00	0.00	O
ATOM	169	H	SERA	15135.428	5.930	-2.088	1.00	0.00	H
ATOM	170	HA	SERA	15132.644	6.038	-2.745	1.00	0.00	H
ATOM	171	1HB	SERA	15134.015	4.246	-3.644	1.00	0.00	H
ATOM	172	2HB	SERA	15134.432	3.706	-2.017	1.00	0.00	H



ATOM	173	HG	SER A	15131.798	3.765	-3.075	1.00	0.00	H
ATOM	174	N	HIS A	16133.429	4.802	0.223	1.00	0.00	N
ATOM	175	CA	HIS A	16132.938	4.625	1.585	1.00	0.00	C
ATOM	176	C	HIS A	16133.755	5.454	2.570	1.00	0.00	C
ATOM	177	O	HIS A	16133.221	6.328	3.255	1.00	0.00	O
ATOM	178	CB	HIS A	16132.989	3.147	1.979	1.00	0.00	C
ATOM	179	CG	HIS A	16131.830	2.351	1.466	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.190	1.385	2.214	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.194	2.380	0.270	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.213	0.855	1.502	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.193	1.441	0.320	1.00	0.00	N
ATOM	184	H	HIS A	16134.308	4.444	-0.019	1.00	0.00	H
ATOM	185	HA	HIS A	16131.912	4.961	1.614	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.894	2.708	1.586	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.996	3.070	3.057	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.419	1.126	3.131	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.431	3.023	-0.566	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.542	0.075	1.831	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.624	1.178	-0.433	1.00	0.00	H
ATOM	192	N	GLY A	17135.053	5.176	2.637	1.00	0.00	N
ATOM	193	CA	GLY A	17135.923	5.906	3.540	1.00	0.00	C
ATOM	194	C	GLY A	17137.327	5.338	3.579	1.00	0.00	C
ATOM	195	O	GLY A	17137.793	4.888	4.626	1.00	0.00	O
ATOM	196	H	GLY A	17135.423	4.470	2.067	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.972	6.937	3.222	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.503	5.868	4.535	1.00	0.00	H
ATOM	199	N	LEU A	18138.003	5.358	2.435	1.00	0.00	N
ATOM	200	CA	LEU A	18139.364	4.840	2.343	1.00	0.00	C
ATOM	201	C	LEU A	18140.375	5.880	2.816	1.00	0.00	C
ATOM	202	O	LEU A	18140.747	6.783	2.069	1.00	0.00	O
ATOM	203	CB	LEU A	18139.678	4.425	0.904	1.00	0.00	C

ATOM	204	CG	LEU A	18138.592	3.593	0.219	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.622	3.811	-1.286	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.766	2.118	0.549	1.00	0.00	C
ATOM	207	H	LEU A	18137.578	5.730	1.635	1.00	0.00	H
ATOM	208	HA	LEU A	18139.432	3.971	2.981	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.838	5.321	0.321	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.591	3.851	0.909	1.00	0.00	H
ATOM	211	HG	LEU A	18137.625	3.907	0.581	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.823	4.852	-1.494	1.00	0.00	H
ATOM	213	2HD1	LEU A	18137.668	3.537	-1.709	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.399	3.201	-1.723	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.807	1.916	0.753	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.441	1.521	-0.290	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.174	1.872	1.417	1.00	0.00	H
ATOM	218	N	GLU A	19140.815	5.743	4.063	1.00	0.00	N
ATOM	219	CA	GLU A	19141.783	6.672	4.636	1.00	0.00	C
ATOM	220	C	GLU A	19142.815	5.929	5.479	1.00	0.00	C
ATOM	221	O	GLU A	19142.747	4.709	5.629	1.00	0.00	O
ATOM	222	CB	GLU A	19141.071	7.722	5.490	1.00	0.00	C
ATOM	223	CG	GLU A	19140.297	7.134	6.659	1.00	0.00	C
ATOM	224	CD	GLU A	19138.960	7.814	6.874	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.947	9.047	7.076	1.00	0.00	O
ATOM	226	OE2	GLU A	19137.926	7.115	6.841	1.00	0.00	O
ATOM	227	H	GLU A	19140.481	5.002	4.610	1.00	0.00	H
ATOM	228	HA	GLU A	19142.291	7.167	3.822	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.807	8.409	5.883	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.379	8.268	4.866	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.123	6.086	6.467	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.889	7.241	7.556	1.00	0.00	H
ATOM	233	N	VAL A	20143.770	6.673	6.027	1.00	0.00	N
ATOM	234	CA	VAL A	20144.816	6.085	6.855	1.00	0.00	C

ATOM	235	C	VAL A	20144.228	5.443	8.107	1.00	0.00	C
ATOM	236	O	VAL A	20143.419	6.052	8.808	1.00	0.00	O
ATOM	237	CB	VAL A	20145.861	7.139	7.273	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.021	6.481	8.006	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.357	7.912	6.061	1.00	0.00	C
ATOM	240	H	VAL A	20143.771	7.640	5.871	1.00	0.00	H
ATOM	241	HA	VAL A	20145.315	5.326	6.272	1.00	0.00	H
ATOM	242	HB	VAL A	20145.387	7.836	7.950	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.265	5.545	7.526	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.740	6.297	9.032	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.880	7.134	7.980	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.663	7.787	5.243	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.328	7.539	5.769	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.434	8.961	6.310	1.00	0.00	H
ATOM	249	N	GLY A	21144.638	4.210	8.382	1.00	0.00	N
ATOM	250	CA	GLY A	21144.141	3.506	9.549	1.00	0.00	C
ATOM	251	C	GLY A	21143.099	2.461	9.198	1.00	0.00	C
ATOM	252	O	GLY A	21142.989	1.435	9.867	1.00	0.00	O
ATOM	253	H	GLY A	21145.285	3.774	7.786	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.971	3.019	10.042	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.704	4.221	10.228	1.00	0.00	H
ATOM	256	N	SER A	22142.331	2.726	8.146	1.00	0.00	N
ATOM	257	CA	SER A	22141.292	1.801	7.707	1.00	0.00	C
ATOM	258	C	SER A	22141.866	0.741	6.773	1.00	0.00	C
ATOM	259	O	SER A	22142.852	0.981	6.076	1.00	0.00	O
ATOM	260	CB	SER A	22140.167	2.563	7.004	1.00	0.00	C
ATOM	261	OG	SER A	22139.925	3.810	7.631	1.00	0.00	O
ATOM	262	H	SER A	22142.467	3.562	7.652	1.00	0.00	H
ATOM	263	HA	SER A	22140.892	1.313	8.583	1.00	0.00	H
ATOM	264	1HB	SER A	22140.443	2.739	5.975	1.00	0.00	H
ATOM	265	2HB	SER A	22139.262	1.975	7.038	1.00	0.00	H

ATOM	266	HG	SER A	22140.662	4.402	7.462	1.00	0.00	H
ATOM	267	N	LEU A	23141.242	-0.432	6.764	1.00	0.00	N
ATOM	268	CA	LEU A	23141.691	-1.530	5.915	1.00	0.00	C
ATOM	269	C	LEU A	23141.197	-1.347	4.483	1.00	0.00	C
ATOM	270	O	LEU A	23140.145	-0.753	4.249	1.00	0.00	O
ATOM	271	CB	LEU A	23141.196	-2.867	6.470	1.00	0.00	C
ATOM	272	CG	LEU A	23141.604	-3.157	7.915	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.672	-4.187	8.535	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.046	-3.636	7.975	1.00	0.00	C
ATOM	275	H	LEU A	23140.461	-0.563	7.341	1.00	0.00	H
ATOM	276	HA	LEU A	23142.770	-1.528	5.914	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.117	-2.880	6.412	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.582	-3.657	5.845	1.00	0.00	H
ATOM	279	HG	LEU A	23141.528	-2.248	8.494	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.727	-4.178	8.014	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.512	-3.947	9.576	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.117	-5.168	8.457	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.069	-4.716	7.938	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.501	-3.297	8.893	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.593	-3.237	7.134	1.00	0.00	H
ATOM	286	N	ALAA	24141.966	-1.861	3.528	1.00	0.00	N
ATOM	287	CA	ALAA	24141.607	-1.755	2.119	1.00	0.00	C
ATOM	288	C	ALAA	24142.207	-2.901	1.312	1.00	0.00	C
ATOM	289	O	ALAA	24143.207	-3.497	1.710	1.00	0.00	O
ATOM	290	CB	ALAA	24142.064	-0.416	1.558	1.00	0.00	C
ATOM	291	H	ALAA	24142.794	-2.324	3.777	1.00	0.00	H
ATOM	292	HA	ALAA	24140.531	-1.800	2.045	1.00	0.00	H
ATOM	293	1HB	ALAA	24142.180	-0.496	0.488	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.010	-0.144	2.004	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.327	0.340	1.786	1.00	0.00	H
ATOM	296	N	GLU A	25141.589	-3.203	0.174	1.00	0.00	N

ATOM	297	CA	GLU A	25142.062	-4.278	-0.690	1.00	0.00	C
ATOM	298	C	GLU A	25142.338	-3.762	-2.098	1.00	0.00	C
ATOM	299	O	GLU A	25141.676	-2.839	-2.573	1.00	0.00	O
ATOM	300	CB	GLU A	25141.033	-5.409	-0.743	1.00	0.00	C
ATOM	301	CG	GLU A	25141.594	-6.719	-1.273	1.00	0.00	C
ATOM	302	CD	GLU A	25140.616	-7.452	-2.170	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.094	-8.503	-1.745	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.373	-6.974	-3.298	1.00	0.00	O
ATOM	305	H	GLU A	25140.796	-2.691	-0.090	1.00	0.00	H
ATOM	306	HA	GLU A	25142.981	-4.660	-0.273	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.654	-5.582	0.254	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.216	-5.108	-1.382	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.490	-6.509	-1.838	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.839	-7.355	-0.435	1.00	0.00	H
ATOM	311	N	VAL A	26143.320	-4.363	-2.762	1.00	0.00	N
ATOM	312	CA	VAL A	26143.685	-3.963	-4.117	1.00	0.00	C
ATOM	313	C	VAL A	26143.360	-5.066	-5.118	1.00	0.00	C
ATOM	314	O	VAL A	26143.246	-6.236	-4.754	1.00	0.00	O
ATOM	315	CB	VAL A	26145.182	-3.618	-4.218	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.509	-3.044	-5.588	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.584	-2.644	-3.118	1.00	0.00	C
ATOM	318	H	VAL A	26143.812	-5.093	-2.331	1.00	0.00	H
ATOM	319	HA	VAL A	26143.114	-3.081	-4.369	1.00	0.00	H
ATOM	320	HB	VAL A	26145.751	-4.526	-4.088	1.00	0.00	H
ATOM	321	1HG1	VAL A	26144.679	-2.444	-5.935	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.684	-3.851	-6.284	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.394	-2.428	-5.520	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.536	-2.941	-2.704	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.835	-2.653	-2.338	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.664	-1.649	-3.528	1.00	0.00	H
ATOM	327	N	LYS A	27143.212	-4.684	-6.384	1.00	0.00	N

ATOM	328	CA	LYS A	27142.900	-5.642	-7.439	1.00	0.00	C
ATOM	329	C	LYS A	27144.165	-6.072	-8.175	1.00	0.00	C
ATOM	330	O	LYS A	27144.162	-6.233	-9.396	1.00	0.00	O
ATOM	331	CB	LYS A	27141.902	-5.034	-8.427	1.00	0.00	C
ATOM	332	CG	LYS A	27140.894	-6.036	-8.966	1.00	0.00	C
ATOM	333	CD	LYS A	27139.575	-5.367	-9.315	1.00	0.00	C
ATOM	334	CE	LYS A	27138.895	-6.053	-10.489	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.541	-5.492	-10.753	1.00	0.00	N
ATOM	336	H	LYS A	27143.314	-3.737	-6.612	1.00	0.00	H
ATOM	337	HA	LYS A	27142.453	-6.509	-6.977	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.360	-4.242	-7.932	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.446	-4.619	-9.261	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.299	-6.497	-9.855	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.716	-6.793	-8.216	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.921	-5.412	-8.457	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.764	-4.335	-9.574	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.507	-5.924	-11.369	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.802	-7.106	-10.268	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.043	-5.325	-9.856	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.985	-6.156	-11.327	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.623	-4.590	-11.266	1.00	0.00	H
ATOM	349	N	GLU A	28145.246	-6.258	-7.425	1.00	0.00	N
ATOM	350	CA	GLU A	28146.518	-6.670	-8.006	1.00	0.00	C
ATOM	351	C	GLU A	28146.536	-8.173	-8.267	1.00	0.00	C
ATOM	352	O	GLU A	28145.548	-8.866	-8.026	1.00	0.00	O
ATOM	353	CB	GLU A	28147.676	-6.285	-7.081	1.00	0.00	C
ATOM	354	CG	GLU A	28148.812	-5.570	-7.793	1.00	0.00	C
ATOM	355	CD	GLU A	28149.849	-5.024	-6.832	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.665	-3.890	-6.341	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.846	-5.729	-6.570	1.00	0.00	O
ATOM	358	H	GLU A	28145.188	-6.114	-6.457	1.00	0.00	H

ATOM	359	HA	GLU A	28146.635	-6.153	-8.947	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.299	-5.634	-6.306	1.00	0.00	H
ATOM	361	2HB	GLU A	28148.071	-7.181	-6.624	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.295	-6.267	-8.462	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.402	-4.750	-8.363	1.00	0.00	H
ATOM	364	N	ASN A	29147.665	-8.670	-8.759	1.00	0.00	N
ATOM	365	CA	ASN A	29147.812	-10.091	-9.051	1.00	0.00	C
ATOM	366	C	ASN A	29147.742	-10.920	-7.771	1.00	0.00	C
ATOM	367	O	ASN A	29146.888	-11.796	-7.635	1.00	0.00	O
ATOM	368	CB	ASN A	29149.137	-10.351	-9.771	1.00	0.00	C
ATOM	369	CG	ASN A	29148.975	-10.405	-11.278	1.00	0.00	C
ATOM	370	OD1	ASN A	29148.949	-11.483	-11.873	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.866	-9.238	-11.903	1.00	0.00	N
ATOM	372	H	ASN A	29148.419	-8.067	-8.930	1.00	0.00	H
ATOM	373	HA	ASN A	29146.998	-10.381	-9.698	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.832	-9.559	-9.532	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.543	-11.294	-9.436	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.895	-8.420	-11.365	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.759	-9.244	-12.877	1.00	0.00	H
ATOM	378	N	PRO A	30148.644	-10.654	-6.810	1.00	0.00	N
ATOM	379	CA	PRO A	30148.679	-11.379	-5.538	1.00	0.00	C
ATOM	380	C	PRO A	30147.577	-10.926	-4.581	1.00	0.00	C
ATOM	381	O	PRO A	30147.624	-9.814	-4.054	1.00	0.00	O
ATOM	382	CB	PRO A	30150.055	-11.023	-4.975	1.00	0.00	C
ATOM	383	CG	PRO A	30150.347	-9.672	-5.528	1.00	0.00	C
ATOM	384	CD	PRO A	30149.700	-9.624	-6.887	1.00	0.00	C
ATOM	385	HA	PRO A	30148.614	-12.446	-5.688	1.00	0.00	H
ATOM	386	1HB	PRO A	30150.013	-11.010	-3.896	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.781	-11.751	-5.305	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.925	-8.913	-4.886	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.415	-9.536	-5.618	1.00	0.00	H

ATOM	390	1HD	PRO A	30149.273	-8.649	-7.067	1.00	0.00	H
ATOM	391	2HD	PRO A	30150.418	-9.867	-7.656	1.00	0.00	H
ATOM	392	N	PRO A	31146.566	-11.781	-4.340	1.00	0.00	N
ATOM	393	CA	PRO A	31145.456	-11.452	-3.440	1.00	0.00	C
ATOM	394	C	PRO A	31145.899	-11.362	-1.984	1.00	0.00	C
ATOM	395	O	PRO A	31145.964	-12.370	-1.281	1.00	0.00	O
ATOM	396	CB	PRO A	31144.481	-12.617	-3.631	1.00	0.00	C
ATOM	397	CG	PRO A	31145.328	-13.747	-4.103	1.00	0.00	C
ATOM	398	CD	PRO A	31146.425	-13.129	-4.923	1.00	0.00	C
ATOM	399	HA	PRO A	31144.977	-10.527	-3.727	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.002	-12.846	-2.691	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.736	-12.350	-4.366	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.744	-14.273	-3.255	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.739	-14.419	-4.710	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.339	-13.694	-4.817	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.134	-13.071	-5.961	1.00	0.00	H
ATOM	406	N	PHE A	32146.203	-10.148	-1.538	1.00	0.00	N
ATOM	407	CA	PHE A	32146.641	-9.923	-0.166	1.00	0.00	C
ATOM	408	C	PHE A	32145.724	-8.933	0.544	1.00	0.00	C
ATOM	409	O	PHE A	32144.840	-8.338	-0.074	1.00	0.00	O
ATOM	410	CB	PHE A	32148.080	-9.407	-0.145	1.00	0.00	C
ATOM	411	CG	PHE A	32148.292	-8.187	-0.997	1.00	0.00	C
ATOM	412	CD1	PHE A	32149.042	-8.259	-2.158	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.740	-6.969	-0.633	1.00	0.00	C
ATOM	414	CE1	PHE A	32149.238	-7.138	-2.944	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.932	-5.845	-1.414	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.682	-5.930	-2.571	1.00	0.00	C
ATOM	417	H	PHE A	32146.131	-9.382	-2.147	1.00	0.00	H
ATOM	418	HA	PHE A	32146.601	-10.869	0.354	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.351	-9.154	0.869	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.739	-10.183	-0.506	1.00	0.00	H



ATOM	421	HD1 PHE A	32149.478	-9.203	-2.451	1.00	0.00	H
ATOM	422	HD2 PHE A	32147.153	-6.901	0.271	1.00	0.00	H
ATOM	423	HE1 PHE A	32149.826	-7.207	-3.848	1.00	0.00	H
ATOM	424	HE2 PHE A	32147.496	-4.902	-1.121	1.00	0.00	H
ATOM	425	HZ PHE A	32148.833	-5.053	-3.183	1.00	0.00	H
ATOM	426	N TYR A	33145.939	-8.760	1.844	1.00	0.00	N
ATOM	427	CA TYR A	33145.131	-7.841	2.637	1.00	0.00	C
ATOM	428	C TYR A	33146.016	-6.929	3.481	1.00	0.00	C
ATOM	429	O TYR A	33146.804	-7.398	4.302	1.00	0.00	O
ATOM	430	CB TYR A	33144.174	-8.620	3.540	1.00	0.00	C
ATOM	431	CG TYR A	33143.008	-9.236	2.800	1.00	0.00	C
ATOM	432	CD1 TYR A	33142.205	-8.467	1.967	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.710	-10.586	2.936	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.138	-9.026	1.290	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.645	-11.152	2.261	1.00	0.00	C
ATOM	436	CZ TYR A	33140.862	-10.369	1.439	1.00	0.00	C
ATOM	437	OH TYR A	33139.801	-10.929	0.767	1.00	0.00	O
ATOM	438	H TYR A	33146.658	-9.263	2.280	1.00	0.00	H
ATOM	439	HA TYR A	33144.555	-7.234	1.955	1.00	0.00	H
ATOM	440	1HB TYR A	33144.716	-9.418	4.026	1.00	0.00	H
ATOM	441	2HB TYR A	33143.777	-7.954	4.292	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.424	-7.416	1.852	1.00	0.00	H
ATOM	443	HD2 TYR A	33143.324	-11.198	3.580	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.526	-8.412	0.646	1.00	0.00	H
ATOM	445	HE2 TYR A	33141.429	-12.204	2.379	1.00	0.00	H
ATOM	446	HH TYR A	33139.049	-11.001	1.359	1.00	0.00	H
ATOM	447	N GLY A	34145.880	-5.623	3.273	1.00	0.00	N
ATOM	448	CA GLY A	34146.673	-4.667	4.022	1.00	0.00	C
ATOM	449	C GLY A	34145.866	-3.460	4.458	1.00	0.00	C
ATOM	450	O GLY A	34144.754	-3.241	3.978	1.00	0.00	O
ATOM	451	H GLY A	34145.235	-5.307	2.606	1.00	0.00	H

ATOM	452	1HA	GLY A	34147.072	-5.156	4.898	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.493	-4.333	3.403	1.00	0.00	H
ATOM	454	N	VAL A	35146.428	-2.675	5.373	1.00	0.00	N
ATOM	455	CA	VAL A	35145.754	-1.484	5.875	1.00	0.00	C
ATOM	456	C	VAL A	35146.411	-0.215	5.340	1.00	0.00	C
ATOM	457	O	VAL A	35147.621	-0.176	5.121	1.00	0.00	O
ATOM	458	CB	VAL A	35145.756	-1.446	7.417	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.180	-1.401	7.951	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.950	-0.261	7.926	1.00	0.00	C
ATOM	461	H	VAL A	35147.317	-2.902	5.717	1.00	0.00	H
ATOM	462	HA	VAL A	35144.728	-1.515	5.539	1.00	0.00	H
ATOM	463	HB	VAL A	35145.291	-2.351	7.779	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.699	-2.306	7.670	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.158	-1.319	9.028	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.694	-0.547	7.534	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.306	0.645	7.457	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.064	-0.180	8.996	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.907	-0.405	7.685	1.00	0.00	H
ATOM	470	N	ILE A	36145.604	0.821	5.134	1.00	0.00	N
ATOM	471	CA	ILE A	36146.108	2.091	4.625	1.00	0.00	C
ATOM	472	C	ILE A	36147.069	2.736	5.619	1.00	0.00	C
ATOM	473	O	ILE A	36146.838	2.711	6.827	1.00	0.00	O
ATOM	474	CB	ILE A	36144.959	3.074	4.326	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.910	2.412	3.430	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.497	4.338	3.673	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.744	3.315	3.095	1.00	0.00	C
ATOM	478	H	ILE A	36144.649	0.729	5.329	1.00	0.00	H
ATOM	479	HA	ILE A	36146.636	1.895	3.704	1.00	0.00	H
ATOM	480	HB	ILE A	36144.498	3.351	5.263	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.376	2.114	2.502	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.520	1.537	3.929	1.00	0.00	H

ATOM	483	1HG2	ILE A	36146.117	4.072	2.830	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.084	4.893	4.390	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.673	4.949	3.335	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.048	4.347	3.190	1.00	0.00	H
ATOM	487	2HD1	ILE A	36141.927	3.116	3.772	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.423	3.126	2.080	1.00	0.00	H
ATOM	489	N	ARG A	37148.149	3.311	5.101	1.00	0.00	N
ATOM	490	CA	ARG A	37149.147	3.962	5.942	1.00	0.00	C
ATOM	491	C	ARG A	37149.368	5.408	5.509	1.00	0.00	C
ATOM	492	O	ARG A	37149.156	6.337	6.286	1.00	0.00	O
ATOM	493	CB	ARG A	37150.470	3.194	5.888	1.00	0.00	C
ATOM	494	CG	ARG A	37150.333	1.721	6.234	1.00	0.00	C
ATOM	495	CD	ARG A	37149.761	1.528	7.630	1.00	0.00	C
ATOM	496	NE	ARG A	37150.620	2.110	8.658	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.211	2.390	9.894	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.959	2.143	10.258	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.057	2.917	10.769	1.00	0.00	N
ATOM	500	H	ARG A	37148.278	3.298	4.129	1.00	0.00	H
ATOM	501	HA	ARG A	37148.779	3.955	6.958	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.876	3.271	4.890	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.162	3.644	6.584	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.674	1.252	5.519	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.308	1.258	6.187	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.791	2.000	7.676	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.655	0.470	7.818	1.00	0.00	H
ATOM	508	HE	ARG A	37151.550	2.303	8.417	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.316	1.745	9.604	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.658	2.355	11.188	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.002	3.105	10.500	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.750	3.127	11.697	1.00	0.00	H
ATOM	513	N	TRP A	38149.794	5.590	4.263	1.00	0.00	N

ATOM	514	CA	TRP A	38150.043	6.924	3.730	1.00	0.00	C
ATOM	515	C	TRP A	38149.298	7.137	2.415	1.00	0.00	C
ATOM	516	O	TRP A	38149.328	6.287	1.526	1.00	0.00	O
ATOM	517	CB	TRP A	38151.546	7.142	3.521	1.00	0.00	C
ATOM	518	CG	TRP A	38151.871	8.390	2.752	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.099	9.635	3.264	1.00	0.00	C
ATOM	520	CD2	TRP A	38151.999	8.511	1.330	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.360	10.523	2.248	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.305	9.856	1.051	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.885	7.612	0.266	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.498	10.322	-0.248	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.078	8.075	-1.022	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.381	9.419	-1.270	1.00	0.00	C
ATOM	527	H	TRP A	38149.946	4.810	3.690	1.00	0.00	H
ATOM	528	HA	TRP A	38149.683	7.642	4.452	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.030	7.211	4.484	1.00	0.00	H
ATOM	530	2HB	TRP A	38151.953	6.301	2.979	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.072	9.873	4.317	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.555	11.475	2.361	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.652	6.572	0.437	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.730	11.356	-0.456	1.00	0.00	H
ATOM	535	HZ3	TRP A	38151.994	7.394	-1.856	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.524	9.737	-2.293	1.00	0.00	H
ATOM	537	N	ILE A	39148.639	8.285	2.299	1.00	0.00	N
ATOM	538	CA	ILE A	39147.894	8.625	1.094	1.00	0.00	C
ATOM	539	C	ILE A	39148.358	9.967	0.540	1.00	0.00	C
ATOM	540	O	ILE A	39148.049	11.018	1.101	1.00	0.00	O
ATOM	541	CB	ILE A	39146.379	8.686	1.364	1.00	0.00	C
ATOM	542	CG1	ILE A	39145.915	7.420	2.087	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.614	8.869	0.061	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.605	7.591	2.824	1.00	0.00	C

ATOM	545	H	ILE A	39148.663	8.925	3.041	1.00	0.00	H
ATOM	546	HA	ILE A	39148.080	7.857	0.357	1.00	0.00	H
ATOM	547	HB	ILE A	39146.182	9.543	1.991	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.788	6.627	1.366	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.666	7.128	2.807	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.691	7.968	-0.530	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.034	9.697	-0.489	1.00	0.00	H
ATOM	552	3HG2	ILE A	39144.576	9.070	0.279	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.518	8.609	3.174	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.577	6.917	3.668	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.785	7.369	2.158	1.00	0.00	H
ATOM	556	N	GLY A	40149.108	9.926	-0.555	1.00	0.00	N
ATOM	557	CA	GLY A	40149.607	11.150	-1.153	1.00	0.00	C
ATOM	558	C	GLY A	40150.146	10.941	-2.554	1.00	0.00	C
ATOM	559	O	GLY A	40149.952	9.882	-3.152	1.00	0.00	O
ATOM	560	H	GLY A	40149.329	9.060	-0.958	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.806	11.871	-1.192	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.397	11.541	-0.532	1.00	0.00	H
ATOM	563	N	GLN A	41150.820	11.958	-3.078	1.00	0.00	N
ATOM	564	CA	GLN A	41151.389	11.894	-4.417	1.00	0.00	C
ATOM	565	C	GLN A	41152.862	12.299	-4.398	1.00	0.00	C
ATOM	566	O	GLN A	41153.193	13.443	-4.086	1.00	0.00	O
ATOM	567	CB	GLN A	41150.606	12.808	-5.358	1.00	0.00	C
ATOM	568	CG	GLN A	41149.100	12.628	-5.266	1.00	0.00	C
ATOM	569	CD	GLN A	41148.352	13.944	-5.322	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.345	14.710	-4.359	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.717	14.213	-6.456	1.00	0.00	N
ATOM	572	H	GLN A	41150.936	12.775	-2.551	1.00	0.00	H
ATOM	573	HA	GLN A	41151.306	10.876	-4.766	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.839	13.835	-5.119	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.912	12.607	-6.372	1.00	0.00	H

ATOM	576	1HG	GLN A	41148.772	12.011	-6.089	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.865	12.137	-4.333	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.767	13.556	-7.179	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.226	15.059	-6.523	1.00	0.00	H
ATOM	580	N	PRO A	42153.773	11.365	-4.729	1.00	0.00	N
ATOM	581	CA	PRO A	42155.214	11.639	-4.743	1.00	0.00	C
ATOM	582	C	PRO A	42155.575	12.795	-5.670	1.00	0.00	C
ATOM	583	O	PRO A	42154.809	13.143	-6.569	1.00	0.00	O
ATOM	584	CB	PRO A	42155.827	10.332	-5.257	1.00	0.00	C
ATOM	585	CG	PRO A	42154.804	9.291	-4.963	1.00	0.00	C
ATOM	586	CD	PRO A	42153.476	9.973	-5.113	1.00	0.00	C
ATOM	587	HA	PRO A	42155.585	11.847	-3.750	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.016	10.414	-6.318	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.751	10.134	-4.734	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.890	8.479	-5.669	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.927	8.927	-3.953	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.137	9.919	-6.137	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.747	9.536	-4.447	1.00	0.00	H
ATOM	594	N	PRO A	43156.753	13.407	-5.462	1.00	0.00	N
ATOM	595	CA	PRO A	43157.213	14.530	-6.284	1.00	0.00	C
ATOM	596	C	PRO A	43157.626	14.090	-7.683	1.00	0.00	C
ATOM	597	O	PRO A	43158.795	13.796	-7.932	1.00	0.00	O
ATOM	598	CB	PRO A	43158.423	15.058	-5.515	1.00	0.00	C
ATOM	599	CG	PRO A	43158.933	13.883	-4.755	1.00	0.00	C
ATOM	600	CD	PRO A	43157.726	13.053	-4.412	1.00	0.00	C
ATOM	601	HA	PRO A	43156.462	15.302	-6.357	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.160	15.428	-6.213	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.114	15.853	-4.853	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.615	13.316	-5.371	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.427	14.216	-3.854	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.968	12.001	-4.451	1.00	0.00	H

ATOM	607	2HD	PRO A	43157.350	13.319	-3.435	1.00	0.00	H
ATOM	608	N	GLY A	44156.661	14.046	-8.594	1.00	0.00	N
ATOM	609	CA	GLY A	44156.948	13.641	-9.955	1.00	0.00	C
ATOM	610	C	GLY A	44155.719	13.142	-10.686	1.00	0.00	C
ATOM	611	O	GLY A	44155.429	13.581	-11.798	1.00	0.00	O
ATOM	612	H	GLY A	44155.746	14.291	-8.339	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.353	14.485	-10.492	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.686	12.852	-9.937	1.00	0.00	H
ATOM	615	N	LEU A	45154.993	12.221	-10.061	1.00	0.00	N
ATOM	616	CA	LEU A	45153.788	11.663	-10.664	1.00	0.00	C
ATOM	617	C	LEU A	45152.574	11.905	-9.775	1.00	0.00	C
ATOM	618	O	LEU A	45152.479	11.353	-8.678	1.00	0.00	O
ATOM	619	CB	LEU A	45153.963	10.164	-10.912	1.00	0.00	C
ATOM	620	CG	LEU A	45154.528	9.373	-9.731	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.196	7.893	-9.869	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.033	9.581	-9.623	1.00	0.00	C
ATOM	623	H	LEU A	45155.274	11.910	-9.172	1.00	0.00	H
ATOM	624	HA	LEU A	45153.631	12.160	-11.609	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.999	9.749	-11.171	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.627	10.036	-11.753	1.00	0.00	H
ATOM	627	HG	LEU A	45154.074	9.733	-8.819	1.00	0.00	H
ATOM	628	1HD1	LEU A	45155.108	7.328	-9.994	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.559	7.745	-10.729	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.683	7.556	-8.980	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.520	8.626	-9.487	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.249	10.218	-8.778	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.399	10.046	-10.527	1.00	0.00	H
ATOM	634	N	ASN A	46151.645	12.727	-10.251	1.00	0.00	N
ATOM	635	CA	ASN A	46150.441	13.026	-9.488	1.00	0.00	C
ATOM	636	C	ASN A	46149.495	11.831	-9.497	1.00	0.00	C
ATOM	637	O	ASN A	46148.874	11.524	-10.514	1.00	0.00	O

ATOM	638	CB	ASN A	46149.739	14.255	-10.072	1.00	0.00	C
ATOM	639	CG	ASN A	46148.563	14.706	-9.230	1.00	0.00	C
ATOM	640	OD1	ASN A	46148.686	15.612	-8.405	1.00	0.00	O
ATOM	641	ND2	ASN A	46147.412	14.076	-9.434	1.00	0.00	N
ATOM	642	H	ASN A	46151.772	13.136	-11.132	1.00	0.00	H
ATOM	643	HA	ASN A	46150.733	13.235	-8.470	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.446	15.069	-10.133	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.380	14.019	-11.063	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.388	13.364	-10.107	1.00	0.00	H
ATOM	647	2HD2	ASN A	46146.634	14.347	-8.904	1.00	0.00	H
ATOM	648	N	GLU A	47149.392	11.160	-8.355	1.00	0.00	N
ATOM	649	CA	GLU A	47148.524	9.997	-8.225	1.00	0.00	C
ATOM	650	C	GLU A	47148.343	9.616	-6.760	1.00	0.00	C
ATOM	651	O	GLU A	47149.314	9.320	-6.062	1.00	0.00	O
ATOM	652	CB	GLU A	47149.102	8.811	-9.002	1.00	0.00	C
ATOM	653	CG	GLU A	47150.614	8.691	-8.904	1.00	0.00	C
ATOM	654	CD	GLU A	47151.193	7.746	-9.937	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.247	8.126	-11.126	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.593	6.624	-9.558	1.00	0.00	O
ATOM	657	H	GLU A	47149.915	11.454	-7.580	1.00	0.00	H
ATOM	658	HA	GLU A	47147.562	10.254	-8.639	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.664	7.899	-8.623	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.839	8.918	-10.045	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.050	9.668	-9.048	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.871	8.326	-7.919	1.00	0.00	H
ATOM	663	N	VAL A	48147.098	9.615	-6.297	1.00	0.00	N
ATOM	664	CA	VAL A	48146.805	9.258	-4.915	1.00	0.00	C
ATOM	665	C	VAL A	48147.146	7.796	-4.656	1.00	0.00	C
ATOM	666	O	VAL A	48146.386	6.897	-5.018	1.00	0.00	O
ATOM	667	CB	VAL A	48145.323	9.499	-4.571	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.083	9.313	-3.081	1.00	0.00	C



ATOM	669	CG2	VAL A	48144.890	10.887	-5.018	1.00	0.00	C
ATOM	670	H	VAL A	48146.361	9.852	-6.898	1.00	0.00	H
ATOM	671	HA	VAL A	48147.412	9.879	-4.272	1.00	0.00	H
ATOM	672	HB	VAL A	48144.727	8.771	-5.102	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.209	9.875	-2.784	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.942	9.666	-2.530	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.926	8.266	-2.869	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.750	11.539	-5.052	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.166	11.281	-4.321	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.447	10.826	-6.002	1.00	0.00	H
ATOM	679	N	LEU A	49148.295	7.563	-4.031	1.00	0.00	N
ATOM	680	CA	LEU A	49148.739	6.208	-3.730	1.00	0.00	C
ATOM	681	C	LEU A	49148.632	5.922	-2.238	1.00	0.00	C
ATOM	682	O	LEU A	49149.299	6.560	-1.424	1.00	0.00	O
ATOM	683	CB	LEU A	49150.182	6.006	-4.198	1.00	0.00	C
ATOM	684	CG	LEU A	49150.428	6.287	-5.680	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.849	6.781	-5.902	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.158	5.040	-6.509	1.00	0.00	C
ATOM	687	H	LEU A	49148.860	8.319	-3.769	1.00	0.00	H
ATOM	688	HA	LEU A	49148.099	5.522	-4.264	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.820	6.658	-3.618	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.464	4.984	-3.996	1.00	0.00	H
ATOM	691	HG	LEU A	49149.750	7.062	-6.010	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.547	6.036	-5.550	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.999	7.702	-5.358	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.009	6.954	-6.956	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.289	4.162	-5.893	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.848	5.003	-7.339	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.146	5.069	-6.884	1.00	0.00	H
ATOM	698	N	ALAA	50147.787	4.960	-1.886	1.00	0.00	N
ATOM	699	CA	ALAA	50147.594	4.594	-0.491	1.00	0.00	C

ATOM	700	C	ALAA	50148.531	3.460	-0.087	1.00	0.00	C
ATOM	701	O	ALAA	50148.422	2.343	-0.593	1.00	0.00	O
ATOM	702	CB	ALAA	50146.146	4.201	-0.243	1.00	0.00	C
ATOM	703	H	ALAA	50147.282	4.487	-2.581	1.00	0.00	H
ATOM	704	HA	ALAA	50147.815	5.463	0.111	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.605	5.046	0.156	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.110	3.384	0.464	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.693	3.891	-1.174	1.00	0.00	H
ATOM	708	N	GLYA	51149.450	3.755	0.827	1.00	0.00	N
ATOM	709	CA	GLYA	51150.391	2.748	1.282	1.00	0.00	C
ATOM	710	C	GLYA	51149.725	1.666	2.108	1.00	0.00	C
ATOM	711	O	GLYA	51149.237	1.926	3.208	1.00	0.00	O
ATOM	712	H	GLYA	51149.488	4.662	1.195	1.00	0.00	H
ATOM	713	1HA	GLYA	51150.860	2.293	0.422	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.151	3.228	1.882	1.00	0.00	H
ATOM	715	N	LEUA	52149.706	0.446	1.578	1.00	0.00	N
ATOM	716	CA	LEUA	52149.094	-0.678	2.275	1.00	0.00	C
ATOM	717	C	LEUA	52150.156	-1.557	2.930	1.00	0.00	C
ATOM	718	O	LEUA	52151.144	-1.930	2.298	1.00	0.00	O
ATOM	719	CB	LEUA	52148.255	-1.510	1.303	1.00	0.00	C
ATOM	720	CG	LEUA	52147.027	-0.797	0.733	1.00	0.00	C
ATOM	721	CD1	LEUA	52146.656	-1.374	-0.623	1.00	0.00	C
ATOM	722	CD2	LEUA	52145.856	-0.901	1.699	1.00	0.00	C
ATOM	723	H	LEUA	52150.112	0.301	0.699	1.00	0.00	H
ATOM	724	HA	LEUA	52148.449	-0.281	3.043	1.00	0.00	H
ATOM	725	1HB	LEUA	52148.886	-1.809	0.479	1.00	0.00	H
ATOM	726	2HB	LEUA	52147.920	-2.398	1.818	1.00	0.00	H
ATOM	727	HG	LEUA	52147.257	0.250	0.599	1.00	0.00	H
ATOM	728	1HD1	LEUA	52146.232	-0.597	-1.241	1.00	0.00	H
ATOM	729	2HD1	LEUA	52145.932	-2.164	-0.491	1.00	0.00	H
ATOM	730	3HD1	LEUA	52147.540	-1.772	-1.100	1.00	0.00	H

ATOM	731	1HD2	LEU A	52145.091	-0.194	1.415	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.195	-0.683	2.701	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.451	-1.902	1.665	1.00	0.00	H
ATOM	734	N	GLU A	53149.943	-1.883	4.200	1.00	0.00	N
ATOM	735	CA	GLU A	53150.879	-2.718	4.942	1.00	0.00	C
ATOM	736	C	GLU A	53150.370	-4.152	5.040	1.00	0.00	C
ATOM	737	O	GLU A	53149.391	-4.428	5.733	1.00	0.00	O
ATOM	738	CB	GLU A	53151.104	-2.147	6.344	1.00	0.00	C
ATOM	739	CG	GLU A	53152.097	-2.944	7.174	1.00	0.00	C
ATOM	740	CD	GLU A	53151.658	-3.099	8.617	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.533	-3.087	9.508	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.440	-3.234	8.856	1.00	0.00	O
ATOM	743	H	GLU A	53149.136	-1.555	4.650	1.00	0.00	H
ATOM	744	HA	GLU A	53151.818	-2.717	4.409	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.471	-1.135	6.254	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.160	-2.132	6.869	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.204	-3.926	6.738	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.050	-2.436	7.156	1.00	0.00	H
ATOM	749	N	LEU A	54151.041	-5.061	4.341	1.00	0.00	N
ATOM	750	CA	LEU A	54150.656	-6.467	4.348	1.00	0.00	C
ATOM	751	C	LEU A	54150.899	-7.091	5.718	1.00	0.00	C
ATOM	752	O	LEU A	54151.876	-6.768	6.394	1.00	0.00	O
ATOM	753	CB	LEU A	54151.434	-7.236	3.279	1.00	0.00	C
ATOM	754	CG	LEU A	54151.427	-6.598	1.888	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.665	-7.009	1.107	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.165	-6.983	1.133	1.00	0.00	C
ATOM	757	H	LEU A	54151.813	-4.779	3.806	1.00	0.00	H
ATOM	758	HA	LEU A	54149.601	-6.523	4.122	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.460	-7.326	3.606	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.011	-8.226	3.197	1.00	0.00	H
ATOM	761	HG	LEU A	54151.440	-5.522	1.993	1.00	0.00	H

ATOM	762	1HD1	LEU A	54153.501	-7.113	1.783	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.893	-6.252	0.369	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.483	-7.950	0.611	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.389	-7.075	0.080	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.412	-6.221	1.276	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.796	-7.927	1.506	1.00	0.00	H
ATOM	768	N	GLU A	55150.004	-7.986	6.123	1.00	0.00	N
ATOM	769	CA	GLU A	55150.121	-8.655	7.413	1.00	0.00	C
ATOM	770	C	GLU A	55151.205	-9.727	7.374	1.00	0.00	C
ATOM	771	O	GLU A	55151.863	-9.996	8.379	1.00	0.00	O
ATOM	772	CB	GLU A	55148.783	-9.281	7.810	1.00	0.00	C
ATOM	773	CG	GLU A	55147.655	-8.271	7.941	1.00	0.00	C
ATOM	774	CD	GLU A	55147.697	-7.519	9.258	1.00	0.00	C
ATOM	775	OE1	GLU A	55147.737	-6.271	9.226	1.00	0.00	O
ATOM	776	OE2	GLU A	55147.688	-8.177	10.318	1.00	0.00	O
ATOM	777	H	GLU A	55149.246	-8.201	5.540	1.00	0.00	H
ATOM	778	HA	GLU A	55150.393	-7.912	8.148	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.502	-10.007	7.061	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.901	-9.783	8.759	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.730	-7.558	7.135	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.711	-8.794	7.873	1.00	0.00	H
ATOM	783	N	ASP A	56151.387	-10.336	6.207	1.00	0.00	N
ATOM	784	CA	ASP A	56152.392	-11.378	6.037	1.00	0.00	C
ATOM	785	C	ASP A	56153.662	-10.814	5.410	1.00	0.00	C
ATOM	786	O	ASP A	56153.605	-10.068	4.432	1.00	0.00	O
ATOM	787	CB	ASP A	56151.840	-12.511	5.169	1.00	0.00	C
ATOM	788	CG	ASP A	56152.436	-13.858	5.527	1.00	0.00	C
ATOM	789	OD1	ASP A	56153.294	-14.350	4.764	1.00	0.00	O
ATOM	790	OD2	ASP A	56152.044	-14.421	6.570	1.00	0.00	O
ATOM	791	H	ASP A	56150.831	-10.078	5.442	1.00	0.00	H
ATOM	792	HA	ASP A	56152.631	-11.771	7.014	1.00	0.00	H

ATOM	793	1HB	ASP	A	56150.769	-12.566	5.297	1.00	0.00	H
ATOM	794	2HB	ASP	A	56152.063	-12.302	4.132	1.00	0.00	H
ATOM	795	N	GLU	A	57154.808	-11.175	5.978	1.00	0.00	N
ATOM	796	CA	GLU	A	57156.092	-10.704	5.475	1.00	0.00	C
ATOM	797	C	GLU	A	57156.441	-11.384	4.155	1.00	0.00	C
ATOM	798	O	GLU	A	57156.953	-12.504	4.137	1.00	0.00	O
ATOM	799	CB	GLU	A	57157.194	-10.967	6.503	1.00	0.00	C
ATOM	800	CG	GLU	A	57156.991	-10.226	7.815	1.00	0.00	C
ATOM	801	CD	GLU	A	57157.319	-11.081	9.024	1.00	0.00	C
ATOM	802	OE1	GLU	A	57158.151	-10.648	9.848	1.00	0.00	O
ATOM	803	OE2	GLU	A	57156.742	-12.181	9.146	1.00	0.00	O
ATOM	804	H	GLU	A	57154.788	-11.772	6.755	1.00	0.00	H
ATOM	805	HA	GLU	A	57156.014	-9.640	5.309	1.00	0.00	H
ATOM	806	1HB	GLU	A	57157.229	-12.025	6.714	1.00	0.00	H
ATOM	807	2HB	GLU	A	57158.141	-10.661	6.085	1.00	0.00	H
ATOM	808	1HG	GLU	A	57157.631	-9.357	7.824	1.00	0.00	H
ATOM	809	2HG	GLU	A	57155.960	-9.914	7.880	1.00	0.00	H
ATOM	810	N	CYS	A	58156.161	-10.700	3.051	1.00	0.00	N
ATOM	811	CA	CYS	A	58156.444	-11.239	1.725	1.00	0.00	C
ATOM	812	C	CYS	A	58157.694	-10.595	1.132	1.00	0.00	C
ATOM	813	O	CYS	A	58157.820	-9.370	1.106	1.00	0.00	O
ATOM	814	CB	CYS	A	58155.251	-11.016	0.795	1.00	0.00	C
ATOM	815	SG	CYS	A	58154.052	-12.369	0.796	1.00	0.00	S
ATOM	816	H	CYS	A	58155.753	-9.813	3.129	1.00	0.00	H
ATOM	817	HA	CYS	A	58156.616	-12.300	1.829	1.00	0.00	H
ATOM	818	1HB	CYS	A	58154.732	-10.118	1.095	1.00	0.00	H
ATOM	819	2HB	CYS	A	58155.610	-10.895	-0.217	1.00	0.00	H
ATOM	820	HG	CYS	A	58154.536	-13.194	0.873	1.00	0.00	H
ATOM	821	N	ALAA		59158.615	-11.427	0.659	1.00	0.00	N
ATOM	822	CA	ALAA		59159.854	-10.940	0.067	1.00	0.00	C
ATOM	823	C	ALAA		59159.574	-10.076	-1.158	1.00	0.00	C

ATOM	824	O	ALAA	59158.805	-10.461	-2.039	1.00	0.00	O
ATOM	825	CB	ALAA	59160.757	-12.107	-0.303	1.00	0.00	C
ATOM	826	H	ALAA	59158.457	-12.393	0.709	1.00	0.00	H
ATOM	827	HA	ALAA	59160.364	-10.341	0.807	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.408	-12.335	0.527	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.351	-11.843	-1.165	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.152	-12.971	-0.534	1.00	0.00	H
ATOM	831	N	GLYA	60160.204	-8.906	-1.208	1.00	0.00	N
ATOM	832	CA	GLYA	60160.010	-8.006	-2.329	1.00	0.00	C
ATOM	833	C	GLYA	60159.225	-6.766	-1.949	1.00	0.00	C
ATOM	834	O	GLYA	60158.535	-6.180	-2.783	1.00	0.00	O
ATOM	835	H	GLYA	60160.804	-8.652	-0.477	1.00	0.00	H
ATOM	836	1HA	GLYA	60160.975	-7.706	-2.707	1.00	0.00	H
ATOM	837	2HA	GLYA	60159.477	-8.530	-3.110	1.00	0.00	H
ATOM	838	N	CYSA	61159.329	-6.366	-0.686	1.00	0.00	N
ATOM	839	CA	CYSA	61158.623	-5.188	-0.197	1.00	0.00	C
ATOM	840	C	CYSA	61159.522	-4.353	0.710	1.00	0.00	C
ATOM	841	O	CYSA	61160.429	-4.877	1.354	1.00	0.00	O
ATOM	842	CB	CYSA	61157.360	-5.602	0.561	1.00	0.00	C
ATOM	843	SG	CYSA	61156.284	-6.726	-0.360	1.00	0.00	S
ATOM	844	H	CYSA	61159.895	-6.875	-0.068	1.00	0.00	H
ATOM	845	HA	CYSA	61158.341	-4.592	-1.051	1.00	0.00	H
ATOM	846	1HB	CYSA	61157.645	-6.098	1.477	1.00	0.00	H
ATOM	847	2HB	CYSA	61156.786	-4.718	0.799	1.00	0.00	H
ATOM	848	HG	CYSA	61156.605	-6.771	-1.263	1.00	0.00	H
ATOM	849	N	THRA	62159.263	-3.050	0.752	1.00	0.00	N
ATOM	850	CA	THRA	62160.048	-2.141	1.580	1.00	0.00	C
ATOM	851	C	THRA	62159.462	-2.040	2.984	1.00	0.00	C
ATOM	852	O	THRA	62158.532	-2.766	3.333	1.00	0.00	O
ATOM	853	CB	THRA	62160.105	-0.754	0.938	1.00	0.00	C
ATOM	854	OG1	THRA	62158.834	-0.131	0.977	1.00	0.00	O

ATOM	855	CG2 THR A	62160.560	-0.781	-0.506	1.00	0.00	C
ATOM	856	H THR A	62158.526	-2.691	0.215	1.00	0.00	H
ATOM	857	HA THR A	62161.050	-2.538	1.648	1.00	0.00	H
ATOM	858	HB THR A	62160.802	-0.141	1.492	1.00	0.00	H
ATOM	859	HG1 THR A	62158.197	-0.673	0.507	1.00	0.00	H
ATOM	860	1HG2 THR A	62160.960	0.185	-0.775	1.00	0.00	H
ATOM	861	2HG2 THR A	62159.718	-1.013	-1.143	1.00	0.00	H
ATOM	862	3HG2 THR A	62161.323	-1.535	-0.629	1.00	0.00	H
ATOM	863	N ASP A	63160.015	-1.136	3.787	1.00	0.00	N
ATOM	864	CA ASP A	63159.548	-0.940	5.154	1.00	0.00	C
ATOM	865	C ASP A	63158.836	0.401	5.299	1.00	0.00	C
ATOM	866	O ASP A	63158.879	1.026	6.359	1.00	0.00	O
ATOM	867	CB ASP A	63160.722	-1.016	6.132	1.00	0.00	C
ATOM	868	CG ASP A	63161.782	0.030	5.845	1.00	0.00	C
ATOM	869	OD1 ASP A	63161.485	1.233	6.000	1.00	0.00	O
ATOM	870	OD2 ASP A	63162.907	-0.355	5.466	1.00	0.00	O
ATOM	871	H ASP A	63160.755	-0.588	3.452	1.00	0.00	H
ATOM	872	HA ASP A	63158.850	-1.731	5.383	1.00	0.00	H
ATOM	873	1HB ASP A	63160.356	-0.864	7.136	1.00	0.00	H
ATOM	874	2HB ASP A	63161.177	-1.994	6.063	1.00	0.00	H
ATOM	875	N GLY A	64158.182	0.836	4.227	1.00	0.00	N
ATOM	876	CA GLY A	64157.471	2.101	4.255	1.00	0.00	C
ATOM	877	C GLY A	64158.195	3.190	3.488	1.00	0.00	C
ATOM	878	O GLY A	64158.313	4.319	3.964	1.00	0.00	O
ATOM	879	H GLY A	64158.183	0.295	3.410	1.00	0.00	H
ATOM	880	1HA GLY A	64156.492	1.960	3.823	1.00	0.00	H
ATOM	881	2HA GLY A	64157.358	2.414	5.283	1.00	0.00	H
ATOM	882	N THR A	65158.679	2.851	2.299	1.00	0.00	N
ATOM	883	CA THR A	65159.394	3.809	1.464	1.00	0.00	C
ATOM	884	C THR A	65159.012	3.644	-0.003	1.00	0.00	C
ATOM	885	O THR A	65159.220	2.584	-0.594	1.00	0.00	O

ATOM	886	CB	THR	A	65160.905	3.634	1.631	1.00	0.00	C
ATOM	887	OG1	THR	A	65161.228	2.278	1.882	1.00	0.00	O
ATOM	888	CG2	THR	A	65161.481	4.460	2.761	1.00	0.00	C
ATOM	889	H	THR	A	65158.552	1.935	1.974	1.00	0.00	H
ATOM	890	HA	THR	A	65159.118	4.801	1.786	1.00	0.00	H
ATOM	891	HB	THR	A	65161.396	3.936	0.717	1.00	0.00	H
ATOM	892	HG1	THR	A	65161.181	1.780	1.063	1.00	0.00	H
ATOM	893	1HG2	THR	A	65161.444	5.507	2.496	1.00	0.00	H
ATOM	894	2HG2	THR	A	65162.507	4.169	2.932	1.00	0.00	H
ATOM	895	3HG2	THR	A	65160.905	4.296	3.658	1.00	0.00	H
ATOM	896	N	PHE	A	66158.451	4.700	-0.585	1.00	0.00	N
ATOM	897	CA	PHE	A	66158.039	4.672	-1.984	1.00	0.00	C
ATOM	898	C	PHE	A	66158.944	5.556	-2.835	1.00	0.00	C
ATOM	899	O	PHE	A	66159.022	6.768	-2.624	1.00	0.00	O
ATOM	900	CB	PHE	A	66156.587	5.130	-2.118	1.00	0.00	C
ATOM	901	CG	PHE	A	66155.983	4.831	-3.461	1.00	0.00	C
ATOM	902	CD1	PHE	A	66155.558	5.857	-4.289	1.00	0.00	C
ATOM	903	CD2	PHE	A	66155.843	3.522	-3.894	1.00	0.00	C
ATOM	904	CE1	PHE	A	66155.003	5.583	-5.524	1.00	0.00	C
ATOM	905	CE2	PHE	A	66155.289	3.242	-5.129	1.00	0.00	C
ATOM	906	CZ	PHE	A	66154.869	4.274	-5.945	1.00	0.00	C
ATOM	907	H	PHE	A	66158.311	5.516	-0.062	1.00	0.00	H
ATOM	908	HA	PHE	A	66158.120	3.654	-2.333	1.00	0.00	H
ATOM	909	1HB	PHE	A	66155.989	4.635	-1.368	1.00	0.00	H
ATOM	910	2HB	PHE	A	66156.537	6.198	-1.962	1.00	0.00	H
ATOM	911	HD1	PHE	A	66155.663	6.881	-3.961	1.00	0.00	H
ATOM	912	HD2	PHE	A	66156.171	2.715	-3.257	1.00	0.00	H
ATOM	913	HE1	PHE	A	66154.675	6.392	-6.160	1.00	0.00	H
ATOM	914	HE2	PHE	A	66155.185	2.219	-5.455	1.00	0.00	H
ATOM	915	HZ	PHE	A	66154.436	4.059	-6.911	1.00	0.00	H
ATOM	916	N	ARG	A	67159.627	4.944	-3.797	1.00	0.00	N



ATOM	917	CA	ARG A	67160.527	5.677	-4.680	1.00	0.00	C
ATOM	918	C	ARG A	67161.640	6.352	-3.884	1.00	0.00	C
ATOM	919	O	ARG A	67162.121	7.422	-4.257	1.00	0.00	O
ATOM	920	CB	ARG A	67159.750	6.723	-5.481	1.00	0.00	C
ATOM	921	CG	ARG A	67158.753	6.124	-6.459	1.00	0.00	C
ATOM	922	CD	ARG A	67159.346	5.998	-7.853	1.00	0.00	C
ATOM	923	NE	ARG A	67160.017	4.715	-8.049	1.00	0.00	N
ATOM	924	CZ	ARG A	67160.796	4.438	-9.092	1.00	0.00	C
ATOM	925	NH1	ARG A	67161.005	5.349	-10.034	1.00	0.00	N
ATOM	926	NH2	ARG A	67161.368	3.247	-9.193	1.00	0.00	N
ATOM	927	H	ARG A	67159.522	3.978	-3.915	1.00	0.00	H
ATOM	928	HA	ARG A	67160.969	4.969	-5.364	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.211	7.358	-4.794	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.451	7.326	-6.039	1.00	0.00	H
ATOM	931	1HG	ARG A	67158.467	5.143	-6.111	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.881	6.759	-6.504	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.552	6.092	-8.578	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.060	6.794	-7.998	1.00	0.00	H
ATOM	935	HE	ARG A	67159.880	4.024	-7.368	1.00	0.00	H
ATOM	936	1HH1	ARG A	67160.577	6.251	-9.963	1.00	0.00	H
ATOM	937	2HH1	ARG A	67161.592	5.135	-10.814	1.00	0.00	H
ATOM	938	1HH2	ARG A	67161.215	2.556	-8.485	1.00	0.00	H
ATOM	939	2HH2	ARG A	67161.954	3.039	-9.976	1.00	0.00	H
ATOM	940	N	GLY A	68162.043	5.720	-2.787	1.00	0.00	N
ATOM	941	CA	GLY A	68163.095	6.274	-1.957	1.00	0.00	C
ATOM	942	C	GLY A	68162.613	7.431	-1.105	1.00	0.00	C
ATOM	943	O	GLY A	68163.389	8.322	-0.761	1.00	0.00	O
ATOM	944	H	GLY A	68161.623	4.869	-2.540	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.474	5.498	-1.309	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.897	6.619	-2.594	1.00	0.00	H
ATOM	947	N	THR A	69161.329	7.417	-0.764	1.00	0.00	N

ATOM	948	CA	THR A	69160.744	8.474	0.054	1.00	0.00	C
ATOM	949	C	THR A	69159.926	7.886	1.199	1.00	0.00	C
ATOM	950	O	THR A	69158.814	7.398	0.995	1.00	0.00	O
ATOM	951	CB	THR A	69159.861	9.382	-0.805	1.00	0.00	C
ATOM	952	OG1	THR A	69160.594	9.906	-1.897	1.00	0.00	O
ATOM	953	CG2	THR A	69159.281	10.550	-0.039	1.00	0.00	C
ATOM	954	H	THR A	69160.760	6.679	-1.068	1.00	0.00	H
ATOM	955	HA	THR A	69161.551	9.059	0.467	1.00	0.00	H
ATOM	956	HB	THR A	69159.039	8.801	-1.197	1.00	0.00	H
ATOM	957	HG1	THR A	69160.330	9.460	-2.705	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.658	10.540	0.973	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.203	10.469	-0.021	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.564	11.474	-0.520	1.00	0.00	H
ATOM	961	N	ARG A	70160.483	7.936	2.404	1.00	0.00	N
ATOM	962	CA	ARG A	70159.806	7.408	3.583	1.00	0.00	C
ATOM	963	C	ARG A	70158.531	8.193	3.874	1.00	0.00	C
ATOM	964	O	ARG A	70158.548	9.423	3.934	1.00	0.00	O
ATOM	965	CB	ARG A	70160.736	7.455	4.796	1.00	0.00	C
ATOM	966	CG	ARG A	70160.242	6.630	5.973	1.00	0.00	C
ATOM	967	CD	ARG A	70160.624	7.265	7.300	1.00	0.00	C
ATOM	968	NE	ARG A	70161.094	6.275	8.267	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.219	6.514	9.571	1.00	0.00	C
ATOM	970	NH1	ARG A	70160.912	7.705	10.068	1.00	0.00	N
ATOM	971	NH2	ARG A	70161.653	5.557	10.380	1.00	0.00	N
ATOM	972	H	ARG A	70161.372	8.337	2.503	1.00	0.00	H
ATOM	973	HA	ARG A	70159.543	6.381	3.381	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.708	7.082	4.505	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.836	8.481	5.120	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.167	6.551	5.919	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.679	5.643	5.917	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.410	7.986	7.127	1.00	0.00	H

ATOM	979	2HD	ARG A	70159.758	7.768	7.706	1.00	0.00	H
ATOM	980	HE	ARG A	70161.327	5.387	7.926	1.00	0.00	H
ATOM	981	1HH1	ARG A	70160.584	8.431	9.462	1.00	0.00	H
ATOM	982	2HH1	ARG A	70161.008	7.878	11.047	1.00	0.00	H
ATOM	983	1HH2	ARG A	70161.885	4.657	10.010	1.00	0.00	H
ATOM	984	2HH2	ARG A	70161.747	5.736	11.359	1.00	0.00	H
ATOM	985	N	TYR A	71157.428	7.475	4.055	1.00	0.00	N
ATOM	986	CA	TYR A	71156.143	8.104	4.341	1.00	0.00	C
ATOM	987	C	TYR A	71155.676	7.769	5.753	1.00	0.00	C
ATOM	988	O	TYR A	71155.095	8.609	6.442	1.00	0.00	O
ATOM	989	CB	TYR A	71155.094	7.653	3.323	1.00	0.00	C
ATOM	990	CG	TYR A	71155.205	8.353	1.988	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.177	7.632	0.800	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.339	9.734	1.914	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.278	8.268	-0.423	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.441	10.377	0.695	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.411	9.640	-0.470	1.00	0.00	C
ATOM	996	OH	TYR A	71155.512	10.275	-1.686	1.00	0.00	O
ATOM	997	H	TYR A	71157.479	6.498	3.995	1.00	0.00	H
ATOM	998	HA	TYR A	71156.273	9.173	4.262	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.201	6.592	3.152	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.110	7.850	3.722	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.073	6.557	0.841	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.364	10.308	2.828	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.254	7.690	-1.334	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.544	11.451	0.658	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.163	9.826	-2.229	1.00	0.00	H
ATOM	1006	N	PHE A	72155.934	6.537	6.179	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.539	6.091	7.510	1.00	0.00	C
ATOM	1008	C	PHE A	72156.482	5.006	8.022	1.00	0.00	C
ATOM	1009	O	PHE A	72157.345	4.523	7.289	1.00	0.00	O

ATOM	1010	CB	PHE A	72154.103	5.567	7.490	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.868	4.498	6.462	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.547	4.833	5.156	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.968	3.158	6.801	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.330	3.851	4.208	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.754	2.172	5.857	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.434	2.519	4.558	1.00	0.00	C
ATOM	1017	H	PHE A	72156.400	5.914	5.585	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.595	6.941	8.175	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.864	5.154	8.459	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.432	6.387	7.279	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.466	5.873	4.881	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.218	2.885	7.816	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.081	4.126	3.193	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.834	1.131	6.134	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.265	1.750	3.819	1.00	0.00	H
ATOM	1026	N	THR A	73156.310	4.627	9.284	1.00	0.00	N
ATOM	1027	CA	THR A	73157.144	3.598	9.894	1.00	0.00	C
ATOM	1028	C	THR A	73156.363	2.300	10.076	1.00	0.00	C
ATOM	1029	O	THR A	73155.378	2.255	10.814	1.00	0.00	O
ATOM	1030	CB	THR A	73157.676	4.079	11.244	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.557	3.122	11.805	1.00	0.00	O
ATOM	1032	CG2	THR A	73156.585	4.347	12.257	1.00	0.00	C
ATOM	1033	H	THR A	73155.604	5.048	9.817	1.00	0.00	H
ATOM	1034	HA	THR A	73157.977	3.413	9.234	1.00	0.00	H
ATOM	1035	HB	THR A	73158.225	4.999	11.097	1.00	0.00	H
ATOM	1036	HG1	THR A	73159.290	3.572	12.232	1.00	0.00	H
ATOM	1037	1HG2	THR A	73155.818	4.960	11.806	1.00	0.00	H
ATOM	1038	2HG2	THR A	73157.003	4.864	13.109	1.00	0.00	H
ATOM	1039	3HG2	THR A	73156.155	3.411	12.579	1.00	0.00	H
ATOM	1040	N	CYS A	74156.808	1.248	9.397	1.00	0.00	N

ATOM 1041 CA CYS A 74156.151 -0.051 9.484 1.00 0.00 C  
 ATOM 1042 C CYS A 74157.172 -1.183 9.428 1.00 0.00 C  
 ATOM 1043 O CYS A 74158.352 -0.954 9.162 1.00 0.00 O  
 ATOM 1044 CB CYS A 74155.136 -0.209 8.350 1.00 0.00 C  
 ATOM 1045 SG CYS A 74153.487 0.420 8.742 1.00 0.00 S  
 ATOM 1046 H CYS A 74157.598 1.347 8.825 1.00 0.00 H  
 ATOM 1047 HA CYS A 74155.631 -0.098 10.428 1.00 0.00 H  
 ATOM 1048 1HB CYS A 74155.492 0.325 7.481 1.00 0.00 H  
 ATOM 1049 2HB CYS A 74155.040 -1.257 8.106 1.00 0.00 H  
 ATOM 1050 HG CYS A 74153.229 1.028 8.045 1.00 0.00 H  
 ATOM 1051 N ALA A 75156.710 -2.403 9.681 1.00 0.00 N  
 ATOM 1052 CA ALA A 75157.584 -3.569 9.660 1.00 0.00 C  
 ATOM 1053 C ALA A 75158.224 -3.751 8.288 1.00 0.00 C  
 ATOM 1054 O ALA A 75157.663 -3.341 7.273 1.00 0.00 O  
 ATOM 1055 CB ALA A 75156.806 -4.818 10.052 1.00 0.00 C  
 ATOM 1056 H ALA A 75155.759 -2.521 9.887 1.00 0.00 H  
 ATOM 1057 HA ALA A 75158.363 -3.415 10.393 1.00 0.00 H  
 ATOM 1058 1HB ALA A 75155.812 -4.769 9.629 1.00 0.00 H  
 ATOM 1059 2HB ALA A 75156.737 -4.876 11.129 1.00 0.00 H  
 ATOM 1060 3HB ALA A 75157.315 -5.692 9.676 1.00 0.00 H  
 ATOM 1061 N LEU A 76159.400 -4.369 8.267 1.00 0.00 N  
 ATOM 1062 CA LEU A 76160.116 -4.605 7.019 1.00 0.00 C  
 ATOM 1063 C LEU A 76159.404 -5.656 6.173 1.00 0.00 C  
 ATOM 1064 O LEU A 76158.806 -6.592 6.703 1.00 0.00 O  
 ATOM 1065 CB LEU A 76161.551 -5.051 7.306 1.00 0.00 C  
 ATOM 1066 CG LEU A 76162.480 -3.949 7.822 1.00 0.00 C  
 ATOM 1067 CD1 LEU A 76162.577 -3.998 9.339 1.00 0.00 C  
 ATOM 1068 CD2 LEU A 76163.860 -4.078 7.193 1.00 0.00 C  
 ATOM 1069 H LEU A 76159.796 -4.673 9.110 1.00 0.00 H  
 ATOM 1070 HA LEU A 76160.141 -3.675 6.471 1.00 0.00 H  
 ATOM 1071 1HB LEU A 76161.519 -5.841 8.043 1.00 0.00 H

ATOM	1072	2HB	LEU A	76161.971	-5.449	6.395	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.074	-2.987	7.546	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76161.684	-4.453	9.742	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.675	-2.995	9.726	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.440	-4.581	9.626	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.358	-3.120	7.222	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.759	-4.400	6.168	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.440	-4.803	7.744	1.00	0.00	H
ATOM	1080	N	LYS A	77159.475	-5.494	4.856	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.837	-6.429	3.936	1.00	0.00	C
ATOM	1082	C	LYS A	77157.331	-6.480	4.169	1.00	0.00	C
ATOM	1083	O	LYS A	77156.703	-7.527	4.009	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.437	-7.827	4.100	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.946	-7.866	3.923	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.343	-7.627	2.475	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.607	-6.788	2.375	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.874	-6.352	0.977	1.00	0.00	N
ATOM	1089	H	LYS A	77159.967	-4.727	4.494	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.023	-6.083	2.930	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.203	-8.193	5.088	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.993	-8.485	3.366	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.391	-7.097	4.538	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.311	-8.833	4.233	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.518	-8.581	1.999	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.539	-7.113	1.970	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.493	-5.914	2.998	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.442	-7.374	2.727	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.899	-6.279	0.814	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.441	-5.423	0.801	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.476	-7.040	0.305	1.00	0.00	H
ATOM	1102	N	LYS A	78156.757	-5.342	4.546	1.00	0.00	N

ATOM 1103 CA LYS A 78155.323 -5.258 4.800 1.00 0.00 C  
 ATOM 1104 C LYS A 78154.792 -3.866 4.468 1.00 0.00 C  
 ATOM 1105 O LYS A 78153.921 -3.341 5.162 1.00 0.00 O  
 ATOM 1106 CB LYS A 78155.023 -5.595 6.262 1.00 0.00 C  
 ATOM 1107 CG LYS A 78155.524 -6.966 6.685 1.00 0.00 C  
 ATOM 1108 CD LYS A 78155.150 -7.275 8.127 1.00 0.00 C  
 ATOM 1109 CE LYS A 78153.909 -8.149 8.207 1.00 0.00 C  
 ATOM 1110 NZ LYS A 78152.946 -7.653 9.229 1.00 0.00 N  
 ATOM 1111 H LYS A 78157.311 -4.541 4.656 1.00 0.00 H  
 ATOM 1112 HA LYS A 78154.831 -5.979 4.166 1.00 0.00 H  
 ATOM 1113 1HB LYS A 78155.490 -4.854 6.895 1.00 0.00 H  
 ATOM 1114 2HB LYS A 78153.954 -5.563 6.415 1.00 0.00 H  
 ATOM 1115 1HG LYS A 78155.084 -7.714 6.042 1.00 0.00 H  
 ATOM 1116 2HG LYS A 78156.599 -6.991 6.588 1.00 0.00 H  
 ATOM 1117 1HD LYS A 78155.972 -7.791 8.599 1.00 0.00 H  
 ATOM 1118 2HD LYS A 78154.961 -6.346 8.646 1.00 0.00 H  
 ATOM 1119 1HE LYS A 78153.423 -8.155 7.242 1.00 0.00 H  
 ATOM 1120 2HE LYS A 78154.208 -9.154 8.464 1.00 0.00 H  
 ATOM 1121 1HZ LYS A 78152.270 -8.405 9.478 1.00 0.00 H  
 ATOM 1122 2HZ LYS A 78152.418 -6.837 8.858 1.00 0.00 H  
 ATOM 1123 3HZ LYS A 78153.454 -7.362 10.088 1.00 0.00 H  
 ATOM 1124 N ALA A 79155.321 -3.276 3.401 1.00 0.00 N  
 ATOM 1125 CA ALA A 79154.901 -1.947 2.977 1.00 0.00 C  
 ATOM 1126 C ALA A 79154.814 -1.858 1.457 1.00 0.00 C  
 ATOM 1127 O ALA A 79155.824 -1.679 0.777 1.00 0.00 O  
 ATOM 1128 CB ALA A 79155.856 -0.893 3.515 1.00 0.00 C  
 ATOM 1129 H ALA A 79156.012 -3.745 2.888 1.00 0.00 H  
 ATOM 1130 HA ALA A 79153.922 -1.758 3.394 1.00 0.00 H  
 ATOM 1131 1HB ALA A 79155.921 -0.074 2.815 1.00 0.00 H  
 ATOM 1132 2HB ALA A 79156.835 -1.331 3.650 1.00 0.00 H  
 ATOM 1133 3HB ALA A 79155.492 -0.528 4.463 1.00 0.00 H

ATOM 1134 N LEU A 80153.601 -1.984 0.930 1.00 0.00 N  
 ATOM 1135 CA LEU A 80153.381 -1.919 -0.510 1.00 0.00 C  
 ATOM 1136 C LEU A 80152.458 -0.758 -0.866 1.00 0.00 C  
 ATOM 1137 O LEU A 80151.333 -0.672 -0.372 1.00 0.00 O  
 ATOM 1138 CB LEU A 80152.787 -3.233 -1.018 1.00 0.00 C  
 ATOM 1139 CG LEU A 80152.459 -3.263 -2.512 1.00 0.00 C  
 ATOM 1140 CD1 LEU A 80153.730 -3.149 -3.339 1.00 0.00 C  
 ATOM 1141 CD2 LEU A 80151.702 -4.534 -2.865 1.00 0.00 C  
 ATOM 1142 H LEU A 80152.834 -2.126 1.523 1.00 0.00 H  
 ATOM 1143 HA LEU A 80154.339 -1.760 -0.985 1.00 0.00 H  
 ATOM 1144 1HB LEU A 80153.491 -4.026 -0.809 1.00 0.00 H  
 ATOM 1145 2HB LEU A 80151.878 -3.429 -0.470 1.00 0.00 H  
 ATOM 1146 HG LEU A 80151.829 -2.419 -2.751 1.00 0.00 H  
 ATOM 1147 1HD1 LEU A 80154.565 -3.536 -2.772 1.00 0.00 H  
 ATOM 1148 2HD1 LEU A 80153.910 -2.113 -3.583 1.00 0.00 H  
 ATOM 1149 3HD1 LEU A 80153.619 -3.719 -4.249 1.00 0.00 H  
 ATOM 1150 1HD2 LEU A 80152.069 -5.352 -2.262 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80151.850 -4.763 -3.910 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80150.649 -4.391 -2.674 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.939 0.132 -1.728 1.00 0.00 N  
 ATOM 1154 CA PHE A 81152.156 1.287 -2.150 1.00 0.00 C  
 ATOM 1155 C PHE A 81151.387 0.985 -3.432 1.00 0.00 C  
 ATOM 1156 O PHE A 81151.895 0.312 -4.329 1.00 0.00 O  
 ATOM 1157 CB PHE A 81153.068 2.498 -2.364 1.00 0.00 C  
 ATOM 1158 CG PHE A 81153.656 3.037 -1.091 1.00 0.00 C  
 ATOM 1159 CD1 PHE A 81153.026 4.061 -0.401 1.00 0.00 C  
 ATOM 1160 CD2 PHE A 81154.838 2.522 -0.585 1.00 0.00 C  
 ATOM 1161 CE1 PHE A 81153.565 4.559 0.770 1.00 0.00 C  
 ATOM 1162 CE2 PHE A 81155.382 3.016 0.585 1.00 0.00 C  
 ATOM 1163 CZ PHE A 81154.744 4.036 1.263 1.00 0.00 C  
 ATOM 1164 H PHE A 81153.842 0.009 -2.087 1.00 0.00 H



ATOM	1165	HA	PHE A	81151.450	1.514	-1.366	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.883	2.215	-3.012	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.500	3.289	-2.830	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.103	4.470	-0.786	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.338	1.724	-1.115	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.064	5.357	1.299	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.305	2.606	0.969	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.167	4.425	2.178	1.00	0.00	H
ATOM	1173	N	VAL A	82150.158	1.486	-3.511	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.319	1.270	-4.683	1.00	0.00	C
ATOM	1175	C	VAL A	82148.378	2.449	-4.910	1.00	0.00	C
ATOM	1176	O	VAL A	82148.205	3.295	-4.033	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.486	-0.018	-4.549	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.382	-1.245	-4.630	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.696	-0.010	-3.249	1.00	0.00	C
ATOM	1180	H	VAL A	82149.809	2.016	-2.764	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.966	1.168	-5.542	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.786	-0.057	-5.371	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.273	-1.004	-5.191	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.851	-2.045	-5.123	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.658	-1.555	-3.633	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.479	-1.027	-2.954	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.771	0.528	-3.394	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.277	0.472	-2.478	1.00	0.00	H
ATOM	1189	N	LYS A	83147.774	2.498	-6.092	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.851	3.573	-6.434	1.00	0.00	C
ATOM	1191	C	LYS A	83145.578	3.488	-5.598	1.00	0.00	C
ATOM	1192	O	LYS A	83144.863	2.486	-5.636	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.501	3.519	-7.922	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.710	3.631	-8.836	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.400	3.123	-10.234	1.00	0.00	C

ATOM	1196	CE	LYS A	83148.095	3.959	-11.298	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.618	3.119	-12.410	1.00	0.00	N
ATOM	1198	H	LYS A	83147.952	1.794	-6.750	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.342	4.511	-6.223	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.005	2.582	-8.129	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.826	4.330	-8.152	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.008	4.667	-8.897	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.518	3.045	-8.421	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.736	2.101	-10.319	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.333	3.168	-10.394	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.388	4.670	-11.697	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.918	4.488	-10.841	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.764	3.702	-13.259	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.940	2.363	-12.637	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.524	2.687	-12.138	1.00	0.00	H
ATOM	1211	N	LEU A	84145.303	4.546	-4.844	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.118	4.598	-3.998	1.00	0.00	C
ATOM	1213	C	LEU A	84142.847	4.449	-4.831	1.00	0.00	C
ATOM	1214	O	LEU A	84141.831	3.947	-4.347	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.082	5.914	-3.220	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.827	6.134	-2.372	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.903	5.324	-1.087	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.648	7.612	-2.060	1.00	0.00	C
ATOM	1219	H	LEU A	84145.912	5.313	-4.859	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.174	3.777	-3.299	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.942	5.945	-2.568	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.158	6.727	-3.927	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.962	5.801	-2.926	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.054	5.558	-0.463	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.814	5.566	-0.561	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.894	4.270	-1.326	1.00	0.00	H

ATOM	1227	1HD2	LEU A	84141.640	7.788	-1.719	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.833	8.193	-2.953	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.346	7.905	-1.290	1.00	0.00	H
ATOM	1230	N	LYS A	85142.909	4.888	-6.084	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.764	4.804	-6.981	1.00	0.00	C
ATOM	1232	C	LYS A	85141.386	3.349	-7.248	1.00	0.00	C
ATOM	1233	O	LYS A	85140.226	3.039	-7.520	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.070	5.513	-8.301	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.200	4.870	-9.089	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.065	5.915	-9.778	1.00	0.00	C
ATOM	1237	CE	LYS A	85143.422	6.411	-11.063	1.00	0.00	C
ATOM	1238	NZ	LYS A	85142.575	7.613	-10.832	1.00	0.00	N
ATOM	1239	H	LYS A	85143.746	5.280	-6.412	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.931	5.297	-6.503	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.182	5.506	-8.915	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.343	6.537	-8.092	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.817	4.297	-8.414	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.777	4.216	-9.837	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.203	6.751	-9.110	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.024	5.476	-10.011	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.201	6.660	-11.767	1.00	0.00	H
ATOM	1248	2HE	LYS A	85142.808	5.621	-11.471	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85142.885	8.109	-9.971	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85141.580	7.333	-10.719	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85142.651	8.264	-11.640	1.00	0.00	H
ATOM	1252	N	SER A	86142.372	2.461	-7.169	1.00	0.00	N
ATOM	1253	CA	SER A	86142.140	1.041	-7.401	1.00	0.00	C
ATOM	1254	C	SER A	86142.076	0.279	-6.082	1.00	0.00	C
ATOM	1255	O	SER A	86142.459	-0.889	-6.009	1.00	0.00	O
ATOM	1256	CB	SER A	86143.244	0.460	-8.286	1.00	0.00	C
ATOM	1257	OG	SER A	86143.251	1.075	-9.563	1.00	0.00	O

ATOM 1258 H SER A 86143.276 2.768 -6.949 1.00 0.00 H  
 ATOM 1259 HA SER A 86141.192 0.938 -7.909 1.00 0.00 H  
 ATOM 1260 IHB SER A 86144.203 0.624 -7.818 1.00 0.00 H  
 ATOM 1261 2HB SER A 86143.083 -0.600 -8.412 1.00 0.00 H  
 ATOM 1262 HG SER A 86143.520 1.993 -9.476 1.00 0.00 H  
 ATOM 1263 N CYSA 87141.591 0.947 -5.041 1.00 0.00 N  
 ATOM 1264 CA CYSA 87141.476 0.334 -3.724 1.00 0.00 C  
 ATOM 1265 C CYSA 87140.014 0.185 -3.316 1.00 0.00 C  
 ATOM 1266 O CYSA 87139.142 0.887 -3.829 1.00 0.00 O  
 ATOM 1267 CB CYSA 87142.225 1.168 -2.683 1.00 0.00 C  
 ATOM 1268 SG CYSA 87143.995 0.811 -2.585 1.00 0.00 S  
 ATOM 1269 H CYSA 87141.303 1.875 -5.162 1.00 0.00 H  
 ATOM 1270 HA CYSA 87141.925 -0.648 -3.775 1.00 0.00 H  
 ATOM 1271 IHB CYSA 87142.116 2.214 -2.924 1.00 0.00 H  
 ATOM 1272 2HB CYSA 87141.799 0.982 -1.709 1.00 0.00 H  
 ATOM 1273 HG CYSA 87144.472 1.629 -2.742 1.00 0.00 H  
 ATOM 1274 N ARG A 88139.754 -0.733 -2.391 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.397 -0.975 -1.913 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.388 -1.224 -0.407 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.319 -1.819 0.136 1.00 0.00 O  
 ATOM 1278 CB ARG A 88137.782 -2.170 -2.644 1.00 0.00 C  
 ATOM 1279 CG ARG A 88137.419 -1.877 -4.091 1.00 0.00 C  
 ATOM 1280 CD ARG A 88136.061 -2.455 -4.455 1.00 0.00 C  
 ATOM 1281 NE ARG A 88135.481 -1.796 -5.623 1.00 0.00 N  
 ATOM 1282 CZ ARG A 88134.188 -1.848 -5.938 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88133.340 -2.527 -5.177 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88133.744 -1.218 -7.018 1.00 0.00 N  
 ATOM 1285 H ARG A 88140.492 -1.261 -2.021 1.00 0.00 H  
 ATOM 1286 HA ARG A 88137.811 -0.094 -2.125 1.00 0.00 H  
 ATOM 1287 IHB ARG A 88138.489 -2.988 -2.630 1.00 0.00 H  
 ATOM 1288 2HB ARG A 88136.885 -2.472 -2.124 1.00 0.00 H

ATOM	1289	1HG	ARG A	88137.394	-0.808	-4.236	1.00	0.00	H
ATOM	1290	2HG	ARG A	88138.170	-2.311	-4.735	1.00	0.00	H
ATOM	1291	1HD	ARG A	88136.178	-3.507	-4.669	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.395	-2.330	-3.615	1.00	0.00	H
ATOM	1293	HE	ARG A	88136.086	-1.287	-6.203	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.668	-3.003	-4.362	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.370	-2.561	-5.420	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.380	-0.706	-7.595	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88132.773	-1.258	-7.255	1.00	0.00	H
ATOM	1298	N	PRO A	89137.332	-0.771	0.291	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.213	-0.952	1.738	1.00	0.00	C
ATOM	1300	C	PRO A	89137.019	-2.414	2.122	1.00	0.00	C
ATOM	1301	O	PRO A	89135.964	-2.997	1.875	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.976	-0.131	2.110	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.191	0.000	0.853	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.177	-0.054	-0.277	1.00	0.00	C
ATOM	1305	HA	PRO A	89138.077	-0.559	2.256	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.413	-0.656	2.863	1.00	0.00	H
ATOM	1307	2HB	PRO A	89136.280	0.833	2.488	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.489	-0.817	0.775	1.00	0.00	H
ATOM	1309	2HG	PRO A	89134.667	0.944	0.848	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.759	-0.602	-1.102	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.454	0.943	-0.584	1.00	0.00	H
ATOM	1312	N	ASP A	90138.046	-3.002	2.728	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.991	-4.398	3.146	1.00	0.00	C
ATOM	1314	C	ASP A	90136.953	-4.597	4.246	1.00	0.00	C
ATOM	1315	O	ASP A	90136.925	-3.855	5.229	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.365	-4.859	3.636	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.557	-6.357	3.498	1.00	0.00	C
ATOM	1318	OD1	ASP A	90138.548	-7.070	3.315	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.715	-6.816	3.574	1.00	0.00	O

ATOM 1320 H ASP A 90138.860 -2.485 2.896 1.00 0.00 H  
 ATOM 1321 HA ASP A 90137.707 -4.990 2.289 1.00 0.00 H  
 ATOM 1322 1HB ASP A 90140.130 -4.363 3.058 1.00 0.00 H  
 ATOM 1323 2HB ASP A 90139.476 -4.594 4.677 1.00 0.00 H  
 ATOM 1324 N SER A 91136.104 -5.605 4.075 1.00 0.00 N  
 ATOM 1325 CA SER A 91135.067 -5.904 5.055 1.00 0.00 C  
 ATOM 1326 C SER A 91135.483 -7.067 5.950 1.00 0.00 C  
 ATOM 1327 O SER A 91134.642 -7.823 6.432 1.00 0.00 O  
 ATOM 1328 CB SER A 91133.751 -6.236 4.348 1.00 0.00 C  
 ATOM 1329 OG SER A 91132.638 -5.866 5.143 1.00 0.00 O  
 ATOM 1330 H SER A 91136.179 -6.161 3.272 1.00 0.00 H  
 ATOM 1331 HA SER A 91134.925 -5.026 5.666 1.00 0.00 H  
 ATOM 1332 1HB SER A 91133.702 -5.700 3.412 1.00 0.00 H  
 ATOM 1333 2HB SER A 91133.705 -7.298 4.158 1.00 0.00 H  
 ATOM 1334 HG SER A 91132.199 -6.656 5.468 1.00 0.00 H  
 ATOM 1335 N ARG A 92136.788 -7.202 6.165 1.00 0.00 N  
 ATOM 1336 CA ARG A 92137.316 -8.274 7.002 1.00 0.00 C  
 ATOM 1337 C ARG A 92136.883 -8.095 8.454 1.00 0.00 C  
 ATOM 1338 O ARG A 92136.702 -9.071 9.181 1.00 0.00 O  
 ATOM 1339 CB ARG A 92138.843 -8.311 6.914 1.00 0.00 C  
 ATOM 1340 CG ARG A 92139.364 -8.969 5.645 1.00 0.00 C  
 ATOM 1341 CD ARG A 92139.907 -10.361 5.921 1.00 0.00 C  
 ATOM 1342 NE ARG A 92138.927 -11.208 6.599 1.00 0.00 N  
 ATOM 1343 CZ ARG A 92139.080 -12.516 6.786 1.00 0.00 C  
 ATOM 1344 NH1 ARG A 92140.171 -13.134 6.348 1.00 0.00 N  
 ATOM 1345 NH2 ARG A 92138.140 -13.211 7.412 1.00 0.00 N  
 ATOM 1346 H ARG A 92137.410 -6.568 5.753 1.00 0.00 H  
 ATOM 1347 HA ARG A 92136.920 -9.207 6.633 1.00 0.00 H  
 ATOM 1348 1HB ARG A 92139.219 -7.299 6.949 1.00 0.00 H  
 ATOM 1349 2HB ARG A 92139.227 -8.857 7.763 1.00 0.00 H  
 ATOM 1350 1HG ARG A 92138.556 -9.044 4.933 1.00 0.00 H

ATOM 1351 2HG ARG A 92140.154 -8.359 5.234 1.00 0.00 H  
 ATOM 1352 1HD ARG A 92140.176 -10.822 4.982 1.00 0.00 H  
 ATOM 1353 2HD ARG A 92140.786 -10.275 6.544 1.00 0.00 H  
 ATOM 1354 HE ARG A 92138.112 -10.778 6.933 1.00 0.00 H  
 ATOM 1355 1HH1 ARG A 92140.883 -12.616 5.875 1.00 0.00 H  
 ATOM 1356 2HH1 ARG A 92140.280 -14.117 6.492 1.00 0.00 H  
 ATOM 1357 1HH2 ARG A 92137.317 -12.751 7.744 1.00 0.00 H  
 ATOM 1358 2HH2 ARG A 92138.255 -14.194 7.552 1.00 0.00 H  
 ATOM 1359 N PHE A 93136.721 -6.843 8.869 1.00 0.00 N  
 ATOM 1360 CA PHE A 93136.309 -6.537 10.234 1.00 0.00 C  
 ATOM 1361 C PHE A 93135.024 -5.717 10.246 1.00 0.00 C  
 ATOM 1362 O PHE A 93134.798 -4.915 11.153 1.00 0.00 O  
 ATOM 1363 CB PHE A 93137.419 -5.780 10.965 1.00 0.00 C  
 ATOM 1364 CG PHE A 93138.691 -6.567 11.107 1.00 0.00 C  
 ATOM 1365 CD1 PHE A 93139.159 -6.934 12.357 1.00 0.00 C  
 ATOM 1366 CD2 PHE A 93139.419 -6.937 9.987 1.00 0.00 C  
 ATOM 1367 CE1 PHE A 93140.328 -7.658 12.491 1.00 0.00 C  
 ATOM 1368 CE2 PHE A 93140.589 -7.662 10.113 1.00 0.00 C  
 ATOM 1369 CZ PHE A 93141.045 -8.022 11.366 1.00 0.00 C  
 ATOM 1370 H PHE A 93136.881 -6.107 8.242 1.00 0.00 H  
 ATOM 1371 HA PHE A 93136.129 -7.473 10.743 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93137.646 -4.876 10.422 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93137.075 -5.521 11.957 1.00 0.00 H  
 ATOM 1374 HD1 PHE A 93138.599 -6.651 13.237 1.00 0.00 H  
 ATOM 1375 HD2 PHE A 93139.063 -6.656 9.007 1.00 0.00 H  
 ATOM 1376 HE1 PHE A 93140.683 -7.938 13.471 1.00 0.00 H  
 ATOM 1377 HE2 PHE A 93141.148 -7.944 9.233 1.00 0.00 H  
 ATOM 1378 HZ PHE A 93141.960 -8.587 11.468 1.00 0.00 H  
 ATOM 1379 N ALA A 94134.184 -5.920 9.236 1.00 0.00 N  
 ATOM 1380 CA ALA A 94132.923 -5.199 9.134 1.00 0.00 C  
 ATOM 1381 C ALA A 94131.753 -6.073 9.572 1.00 0.00 C

ATOM 1382 O ALAA 94131.540 -7.160 9.032 1.00 0.00 O  
 ATOM 1383 CB ALAA 94132.711 -4.704 7.711 1.00 0.00 C  
 ATOM 1384 H ALAA 94134.420 -6.574 8.543 1.00 0.00 H  
 ATOM 1385 HA ALAA 94132.978 -4.337 9.784 1.00 0.00 H  
 ATOM 1386 1HB ALAA 94131.982 -5.329 7.216 1.00 0.00 H  
 ATOM 1387 2HB ALAA 94133.646 -4.747 7.172 1.00 0.00 H  
 ATOM 1388 3HB ALAA 94132.356 -3.685 7.733 1.00 0.00 H  
 ATOM 1389 N SERA 95130.997 -5.593 10.554 1.00 0.00 N  
 ATOM 1390 CA SERA 95129.848 -6.330 11.065 1.00 0.00 C  
 ATOM 1391 C SERA 95128.542 -5.657 10.654 1.00 0.00 C  
 ATOM 1392 O SERA 95128.403 -4.437 10.754 1.00 0.00 O  
 ATOM 1393 CB SERA 95129.923 -6.440 12.589 1.00 0.00 C  
 ATOM 1394 OG SERA 95129.179 -7.551 13.058 1.00 0.00 O  
 ATOM 1395 H SERA 95131.217 -4.721 10.944 1.00 0.00 H  
 ATOM 1396 HA SERA 95129.876 -7.323 10.640 1.00 0.00 H  
 ATOM 1397 1HB SERA 95130.952 -6.560 12.890 1.00 0.00 H  
 ATOM 1398 2HB SERA 95129.521 -5.540 13.032 1.00 0.00 H  
 ATOM 1399 HG SERA 95129.777 -8.270 13.272 1.00 0.00 H  
 ATOM 1400 N LEUA 96127.587 -6.458 10.194 1.00 0.00 N  
 ATOM 1401 CA LEUA 96126.294 -5.939 9.768 1.00 0.00 C  
 ATOM 1402 C LEUA 96125.251 -6.107 10.868 1.00 0.00 C  
 ATOM 1403 O LEUA 96124.066 -6.293 10.592 1.00 0.00 O  
 ATOM 1404 CB LEUA 96125.829 -6.650 8.496 1.00 0.00 C  
 ATOM 1405 CG LEUA 96126.512 -6.187 7.209 1.00 0.00 C  
 ATOM 1406 CD1 LEUA 96126.653 -7.345 6.233 1.00 0.00 C  
 ATOM 1407 CD2 LEUA 96125.735 -5.043 6.575 1.00 0.00 C  
 ATOM 1408 H LEUA 96127.758 -7.421 10.138 1.00 0.00 H  
 ATOM 1409 HA LEUA 96126.412 -4.886 9.559 1.00 0.00 H  
 ATOM 1410 1HB LEUA 96126.008 -7.709 8.615 1.00 0.00 H  
 ATOM 1411 2HB LEUA 96124.766 -6.492 8.388 1.00 0.00 H  
 ATOM 1412 HG LEUA 96127.504 -5.828 7.445 1.00 0.00 H



ATOM	1413	1HD1	LEU A	96125.687	-7.802	6.075	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96127.337	-8.076	6.637	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.035	-6.977	5.292	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96125.827	-5.098	5.500	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.132	-4.102	6.923	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96124.693	-5.120	6.850	1.00	0.00	H
ATOM	1419	N	GLN A	97125.700	-6.037	12.116	1.00	0.00	N
ATOM	1420	CA	GLN A	97124.806	-6.180	13.260	1.00	0.00	C
ATOM	1421	C	GLN A	97125.447	-5.618	14.528	1.00	0.00	C
ATOM	1422	O	GLN A	97125.540	-6.305	15.546	1.00	0.00	O
ATOM	1423	CB	GLN A	97124.440	-7.652	13.466	1.00	0.00	C
ATOM	1424	CG	GLN A	97123.317	-7.864	14.467	1.00	0.00	C
ATOM	1425	CD	GLN A	97123.167	-9.317	14.876	1.00	0.00	C
ATOM	1426	OE1	GLN A	97122.698	-10.148	14.099	1.00	0.00	O
ATOM	1427	NE2	GLN A	97123.569	-9.630	16.103	1.00	0.00	N
ATOM	1428	H	GLN A	97126.656	-5.886	12.274	1.00	0.00	H
ATOM	1429	HA	GLN A	97123.907	-5.622	13.049	1.00	0.00	H
ATOM	1430	1HB	GLN A	97124.134	-8.070	12.518	1.00	0.00	H
ATOM	1431	2HB	GLN A	97125.313	-8.182	13.818	1.00	0.00	H
ATOM	1432	1HG	GLN A	97123.522	-7.277	15.349	1.00	0.00	H
ATOM	1433	2HG	GLN A	97122.389	-7.534	14.024	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97123.933	-8.917	16.667	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97123.484	-10.562	16.393	1.00	0.00	H
ATOM	1436	N	PRO A	98125.900	-4.353	14.483	1.00	0.00	N
ATOM	1437	CA	PRO A	98126.534	-3.700	15.632	1.00	0.00	C
ATOM	1438	C	PRO A	98125.534	-3.370	16.735	1.00	0.00	C
ATOM	1439	O	PRO A	98124.728	-2.449	16.600	1.00	0.00	O
ATOM	1440	CB	PRO A	98127.113	-2.416	15.035	1.00	0.00	C
ATOM	1441	CG	PRO A	98126.248	-2.125	13.858	1.00	0.00	C
ATOM	1442	CD	PRO A	98125.829	-3.460	13.309	1.00	0.00	C
ATOM	1443	HA	PRO A	98127.332	-4.303	16.039	1.00	0.00	H

ATOM	1444	1HB	PRO A	98127.067	-1.623	15.767	1.00	0.00	H
ATOM	1445	2HB	PRO A	98128.138	-2.583	14.739	1.00	0.00	H
ATOM	1446	1HG	PRO A	98125.382	-1.559	14.170	1.00	0.00	H
ATOM	1447	2HG	PRO A	98126.809	-1.575	13.117	1.00	0.00	H
ATOM	1448	1HD	PRO A	98124.821	-3.411	12.924	1.00	0.00	H
ATOM	1449	2HD	PRO A	98126.514	-3.784	12.538	1.00	0.00	H
ATOM	1450	N	SER A	99125.590	-4.129	17.825	1.00	0.00	N
ATOM	1451	CA	SER A	99124.688	-3.917	18.950	1.00	0.00	C
ATOM	1452	C	SER A	99125.020	-4.862	20.100	1.00	0.00	C
ATOM	1453	O	SER A	99124.804	-6.071	20.005	1.00	0.00	O
ATOM	1454	CB	SER A	99123.236	-4.118	18.513	1.00	0.00	C
ATOM	1455	OG	SER A	99122.378	-3.188	19.148	1.00	0.00	O
ATOM	1456	H	SER A	99126.255	-4.849	17.872	1.00	0.00	H
ATOM	1457	HA	SER A	99124.815	-2.899	19.289	1.00	0.00	H
ATOM	1458	1HB	SER A	99123.163	-3.983	17.443	1.00	0.00	H
ATOM	1459	2HB	SER A	99122.920	-5.118	18.771	1.00	0.00	H
ATOM	1460	HG	SER A	99121.811	-2.774	18.493	1.00	0.00	H
ATOM	1461	N	GLY A	100125.544	-4.304	21.186	1.00	0.00	N
ATOM	1462	CA	GLY A	100125.896	-5.111	22.339	1.00	0.00	C
ATOM	1463	C	GLY A	100125.496	-4.454	23.648	1.00	0.00	C
ATOM	1464	O	GLY A	100124.378	-4.651	24.125	1.00	0.00	O
ATOM	1465	H	GLY A	100125.692	-3.335	21.204	1.00	0.00	H
ATOM	1466	1HA	GLY A	100125.400	-6.066	22.261	1.00	0.00	H
ATOM	1467	2HA	GLY A	100126.965	-5.270	22.341	1.00	0.00	H
ATOM	1468	N	PRO A	101126.396	-3.664	24.257	1.00	0.00	N
ATOM	1469	CA	PRO A	101126.116	-2.980	25.524	1.00	0.00	C
ATOM	1470	C	PRO A	101125.105	-1.850	25.358	1.00	0.00	C
ATOM	1471	O	PRO A	101124.312	-1.575	26.259	1.00	0.00	O
ATOM	1472	CB	PRO A	101127.479	-2.422	25.935	1.00	0.00	C
ATOM	1473	CG	PRO A	101128.223	-2.260	24.656	1.00	0.00	C
ATOM	1474	CD	PRO A	101127.753	-3.373	23.760	1.00	0.00	C

ATOM 1475 HA PRO A 101125.763 -3.670 26.276 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101127.346 -1.474 26.439 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101127.973 -3.120 26.594 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101127.993 -1.301 24.216 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101129.285 -2.347 24.835 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101127.724 -3.042 22.731 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101128.394 -4.236 23.862 1.00 0.00 H  
 ATOM 1482 N SER A 102125.139 -1.199 24.199 1.00 0.00 N  
 ATOM 1483 CA SER A 102124.225 -0.098 23.914 1.00 0.00 C  
 ATOM 1484 C SER A 102123.435 -0.365 22.637 1.00 0.00 C  
 ATOM 1485 O SER A 102124.012 -0.552 21.566 1.00 0.00 O  
 ATOM 1486 CB SER A 102125.000 1.213 23.781 1.00 0.00 C  
 ATOM 1487 OG SER A 102125.222 1.806 25.049 1.00 0.00 O  
 ATOM 1488 H SER A 102125.793 -1.465 23.521 1.00 0.00 H  
 ATOM 1489 HA SER A 102123.535 -0.016 24.739 1.00 0.00 H  
 ATOM 1490 1HB SER A 102125.956 1.020 23.317 1.00 0.00 H  
 ATOM 1491 2HB SER A 102124.437 1.902 23.168 1.00 0.00 H  
 ATOM 1492 HG SER A 102124.448 2.315 25.305 1.00 0.00 H  
 ATOM 1493 N SER A 103122.112 -0.385 22.759 1.00 0.00 N  
 ATOM 1494 CA SER A 103121.243 -0.631 21.614 1.00 0.00 C  
 ATOM 1495 C SER A 103119.920 0.115 21.765 1.00 0.00 C  
 ATOM 1496 O SER A 103119.107 -0.212 22.629 1.00 0.00 O  
 ATOM 1497 CB SER A 103120.982 -2.129 21.459 1.00 0.00 C  
 ATOM 1498 OG SER A 103120.388 -2.668 22.627 1.00 0.00 O  
 ATOM 1499 H SER A 103121.710 -0.229 23.639 1.00 0.00 H  
 ATOM 1500 HA SER A 103121.748 -0.268 20.731 1.00 0.00 H  
 ATOM 1501 1HB SER A 103120.316 -2.292 20.624 1.00 0.00 H  
 ATOM 1502 2HB SER A 103121.917 -2.639 21.276 1.00 0.00 H  
 ATOM 1503 HG SER A 103120.531 -3.617 22.650 1.00 0.00 H  
 ATOM 1504 N GLY A 104119.713 1.118 20.918 1.00 0.00 N  
 ATOM 1505 CA GLY A 104118.488 1.894 20.973 1.00 0.00 C

ATOM 1506 C GLY A 104 117.863 2.089 19.605 1.00 0.00 C  
 ATOM 1507 O GLY A 104 117.616 3.253 19.226 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104 117.621 1.078 18.914 1.00 0.00 O  
 ATOM 1509 H GLY A 104 120.396 1.333 20.250 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104 117.780 1.384 21.611 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104 118.707 2.862 21.398 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

#### Three-Dimensional Structure Coordinate Table 14

ATOM 1 N GLY A 1137.007 6.698 11.421 1.00 0.00 N  
 ATOM 2 CA GLY A 1136.169 6.784 12.650 1.00 0.00 C  
 ATOM 3 C GLY A 1135.283 8.014 12.663 1.00 0.00 C  
 ATOM 4 O GLY A 1134.315 8.099 11.908 1.00 0.00 O  
 ATOM 5 1H GLY A 1137.956 6.347 11.659 1.00 0.00 H  
 ATOM 6 2H GLY A 1137.096 7.637 10.983 1.00 0.00 H  
 ATOM 7 3H GLY A 1136.570 6.049 10.736 1.00 0.00 H  
 ATOM 8 1HA GLY A 1135.546 5.905 12.709 1.00 0.00 H  
 ATOM 9 2HA GLY A 1136.818 6.813 13.512 1.00 0.00 H  
 ATOM 10 N SER A 2135.616 8.971 13.523 1.00 0.00 N  
 ATOM 11 CA SER A 2134.844 10.204 13.632 1.00 0.00 C  
 ATOM 12 C SER A 2135.755 11.425 13.568 1.00 0.00 C  
 ATOM 13 O SER A 2135.655 12.239 12.650 1.00 0.00 O  
 ATOM 14 CB SER A 2134.046 10.217 14.938 1.00 0.00 C  
 ATOM 15 OG SER A 2132.921 9.360 14.856 1.00 0.00 O  
 ATOM 16 H SER A 2136.399 8.846 14.098 1.00 0.00 H  
 ATOM 17 HA SER A 2134.156 10.239 12.801 1.00 0.00 H  
 ATOM 18 1HB SER A 2134.678 9.882 15.747 1.00 0.00 H  
 ATOM 19 2HB SER A 2133.705 11.221 15.139 1.00 0.00 H  
 ATOM 20 HG SER A 2133.192 8.456 15.029 1.00 0.00 H  
 ATOM 21 N SER A 3136.645 11.545 14.548 1.00 0.00 N

ATOM22 CA SERA 3137.575 12.668 14.603 1.00 0.00 C  
 ATOM23 C SERA 3138.909 12.299 13.962 1.00 0.00 C  
 ATOM24 O SERA 3139.477 11.244 14.248 1.00 0.00 O  
 ATOM25 CB SERA 3137.794 13.104 16.051 1.00 0.00 C  
 ATOM26 OG SERA 3138.507 14.328 16.114 1.00 0.00 O  
 ATOM27 H SERA 3136.676 10.863 15.252 1.00 0.00 H  
 ATOM28 HA SERA 3137.139 13.487 14.051 1.00 0.00 H  
 ATOM29 1HB SERA 3136.838 13.234 16.536 1.00 0.00 H  
 ATOM30 2HB SERA 3138.361 12.346 16.573 1.00 0.00 H  
 ATOM31 HG SERA 3137.906 15.057 15.945 1.00 0.00 H  
 ATOM32 N GLYA 4139.405 13.175 13.095 1.00 0.00 N  
 ATOM33 CA GLYA 4140.670 12.923 12.429 1.00 0.00 C  
 ATOM34 C GLYA 4141.383 14.202 12.034 1.00 0.00 C  
 ATOM35 O GLYA 4141.365 15.184 12.776 1.00 0.00 O  
 ATOM36 H GLYA 4138.910 13.999 12.906 1.00 0.00 H  
 ATOM37 1HA GLYA 4141.308 12.359 13.092 1.00 0.00 H  
 ATOM38 2HA GLYA 4140.485 12.338 11.540 1.00 0.00 H  
 ATOM39 N SERA 5142.011 14.190 10.862 1.00 0.00 N  
 ATOM40 CA SERA 5142.733 15.357 10.370 1.00 0.00 C  
 ATOM41 C SERA 5143.282 15.107 8.970 1.00 0.00 C  
 ATOM42 O SERA 5143.247 15.990 8.111 1.00 0.00 O  
 ATOM43 CB SERA 5143.875 15.715 11.323 1.00 0.00 C  
 ATOM44 OG SERA 5144.821 14.662 11.403 1.00 0.00 O  
 ATOM45 H SERA 5141.988 13.376 10.316 1.00 0.00 H  
 ATOM46 HA SERA 5142.038 16.183 10.329 1.00 0.00 H  
 ATOM47 1HB SERA 5144.374 16.603 10.965 1.00 0.00 H  
 ATOM48 2HB SERA 5143.475 15.900 12.308 1.00 0.00 H  
 ATOM49 HG SERA 5144.396 13.877 11.755 1.00 0.00 H  
 ATOM50 N SERA 6143.790 13.900 8.745 1.00 0.00 N  
 ATOM51 CA SERA 6144.347 13.534 7.449 1.00 0.00 C  
 ATOM52 C SERA 6143.297 13.657 6.350 1.00 0.00 C

ATOM53	O	SER A	6143.595	14.099	5.240	1.00	0.00	O
ATOM54	CB	SER A	6144.893	12.105	7.490	1.00	0.00	C
ATOM55	OG	SER A	6146.049	11.976	6.680	1.00	0.00	O
ATOM56	H	SER A	6143.790	13.239	9.470	1.00	0.00	H
ATOM57	HA	SER A	6145.158	14.212	7.233	1.00	0.00	H
ATOM58	1HB	SER A	6145.151	11.849	8.506	1.00	0.00	H
ATOM59	2HB	SER A	6144.137	11.422	7.128	1.00	0.00	H
ATOM60	HG	SER A	6146.833	12.117	7.216	1.00	0.00	H
ATOM61	N	GLY A	7142.068	13.266	6.667	1.00	0.00	N
ATOM62	CA	GLY A	7140.992	13.341	5.695	1.00	0.00	C
ATOM63	C	GLY A	7139.657	12.913	6.273	1.00	0.00	C
ATOM64	O	GLY A	7139.594	12.396	7.389	1.00	0.00	O
ATOM65	H	GLY A	7141.888	12.922	7.567	1.00	0.00	H
ATOM66	1HA	GLY A	7140.909	14.360	5.345	1.00	0.00	H
ATOM67	2HA	GLY A	7141.231	12.703	4.858	1.00	0.00	H
ATOM68	N	LEU A	8138.589	13.127	5.512	1.00	0.00	N
ATOM69	CA	LEU A	8137.249	12.759	5.955	1.00	0.00	C
ATOM70	C	LEU A	8136.760	11.511	5.229	1.00	0.00	C
ATOM71	O	LEU A	8137.474	10.939	4.405	1.00	0.00	O
ATOM72	CB	LEU A	8136.275	13.916	5.719	1.00	0.00	C
ATOM73	CG	LEU A	8136.473	15.126	6.634	1.00	0.00	C
ATOM74	CD1	LEU A	8136.089	16.408	5.913	1.00	0.00	C
ATOM75	CD2	LEU A	8135.660	14.964	7.911	1.00	0.00	C
ATOM76	H	LEU A	8138.704	13.542	4.632	1.00	0.00	H
ATOM77	HA	LEU A	8137.296	12.551	7.014	1.00	0.00	H
ATOM78	1HB	LEU A	8136.382	14.244	4.695	1.00	0.00	H
ATOM79	2HB	LEU A	8135.271	13.547	5.859	1.00	0.00	H
ATOM80	HG	LEU A	8137.516	15.195	6.907	1.00	0.00	H
ATOM81	1HD1	LEU A	8136.166	17.241	6.597	1.00	0.00	H
ATOM82	2HD1	LEU A	8135.073	16.330	5.555	1.00	0.00	H
ATOM83	3HD1	LEU A	8136.755	16.565	5.078	1.00	0.00	H

ATOM84	1HD2	LEU A	8136.213	15.371	8.743	1.00	0.00	H	
ATOM85	2HD2	LEU A	8135.467	13.916	8.084	1.00	0.00	H	
ATOM86	3HD2	LEU A	8134.723	15.491	7.809	1.00	0.00	H	
ATOM87	N	ALAA	9135.537	11.093	5.538	1.00	0.00	N	
ATOM88	CA	ALAA	9134.950	9.912	4.916	1.00	0.00	C	
ATOM89	C	ALAA	9133.745	10.285	4.060	1.00	0.00	C	
ATOM90	O	ALAA	9132.629	10.414	4.565	1.00	0.00	O	
ATOM91	CB	ALAA	9134.554	8.899	5.978	1.00	0.00	C	
ATOM92	H	ALAA	9135.015	11.591	6.203	1.00	0.00	H	
ATOM93	HA	ALAA	9135.701	9.462	4.284	1.00	0.00	H	
ATOM94	1HB	ALAA	9135.139	9.064	6.870	1.00	0.00	H	
ATOM95	2HB	ALAA	9134.735	7.900	5.608	1.00	0.00	H	
ATOM96	3HB	ALAA	9133.505	9.011	6.209	1.00	0.00	H	
ATOM97	N	META	10133.977	10.453	2.763	1.00	0.00	N	
ATOM98	CA	META	10132.909	10.809	1.836	1.00	0.00	C	
ATOM99	C	META	10133.235	10.328	0.423	1.00	0.00	C	
ATOM	100	O	META	10134.398	10.306	0.019	1.00	0.00	O
ATOM	101	CB	META	10132.689	12.324	1.837	1.00	0.00	C
ATOM	102	CG	META	10131.224	12.725	1.906	1.00	0.00	C
ATOM	103	SD	META	10130.954	14.197	2.912	1.00	0.00	S
ATOM	104	CE	META	10129.806	15.105	1.880	1.00	0.00	C
ATOM	105	H	META	10134.887	10.335	2.421	1.00	0.00	H
ATOM	106	HA	META	10132.007	10.322	2.170	1.00	0.00	H
ATOM	107	1HB	META	10133.197	12.749	2.690	1.00	0.00	H
ATOM	108	2HB	META	10133.112	12.740	0.934	1.00	0.00	H
ATOM	109	1HG	META	10130.871	12.921	0.905	1.00	0.00	H
ATOM	110	2HG	META	10130.661	11.908	2.331	1.00	0.00	H
ATOM	111	1HE	META	10128.831	15.110	2.345	1.00	0.00	H
ATOM	112	2HE	META	10129.742	14.634	0.911	1.00	0.00	H
ATOM	113	3HE	META	10130.153	16.122	1.763	1.00	0.00	H
ATOM	114	N	PRO A	11132.208	9.938	-0.352	1.00	0.00	N

ATOM	115	CA	PRO A	11132.396	9.459	-1.725	1.00	0.00	C
ATOM	116	C	PRO A	11133.132	10.473	-2.599	1.00	0.00	C
ATOM	117	O	PRO A	11134.059	10.114	-3.325	1.00	0.00	O
ATOM	118	CB	PRO A	11130.970	9.244	-2.241	1.00	0.00	C
ATOM	119	CG	PRO A	11130.125	9.113	-1.020	1.00	0.00	C
ATOM	120	CD	PRO A	11130.790	9.935	0.049	1.00	0.00	C
ATOM	121	HA	PRO A	11132.931	8.521	-1.742	1.00	0.00	H
ATOM	122	1HB	PRO A	11130.671	10.090	-2.841	1.00	0.00	H
ATOM	123	2HB	PRO A	11130.936	8.345	-2.840	1.00	0.00	H
ATOM	124	1HG	PRO A	11129.137	9.495	-1.219	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.075	8.078	-0.718	1.00	0.00	H
ATOM	126	1HD	PRO A	11130.391	10.938	0.056	1.00	0.00	H
ATOM	127	2HD	PRO A	11130.664	9.470	1.014	1.00	0.00	H
ATOM	128	N	PRO A	12132.736	11.759	-2.541	1.00	0.00	N
ATOM	129	CA	PRO A	12133.378	12.813	-3.334	1.00	0.00	C
ATOM	130	C	PRO A	12134.869	12.923	-3.039	1.00	0.00	C
ATOM	131	O	PRO A	12135.631	13.466	-3.838	1.00	0.00	O
ATOM	132	CB	PRO A	12132.653	14.092	-2.900	1.00	0.00	C
ATOM	133	CG	PRO A	12131.361	13.627	-2.322	1.00	0.00	C
ATOM	134	CD	PRO A	12131.646	12.290	-1.702	1.00	0.00	C
ATOM	135	HA	PRO A	12133.232	12.654	-4.392	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.249	14.614	-2.166	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.494	14.727	-3.758	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.023	14.325	-1.569	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.622	13.529	-3.102	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.969	12.408	-0.678	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.775	11.657	-1.754	1.00	0.00	H
ATOM	142	N	GLY A	13135.278	12.404	-1.885	1.00	0.00	N
ATOM	143	CA	GLY A	13136.677	12.454	-1.503	1.00	0.00	C
ATOM	144	C	GLY A	13137.536	11.512	-2.324	1.00	0.00	C
ATOM	145	O	GLY A	13138.032	11.882	-3.388	1.00	0.00	O



ATOM	146	H	GLY A	13134.624	11.983	-1.287	1.00	0.00	H
ATOM	147	1HA	GLY A	13137.039	13.462	-1.637	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.764	12.186	-0.460	1.00	0.00	H
ATOM	149	N	ASNA	14137.714	10.292	-1.828	1.00	0.00	N
ATOM	150	CA	ASNA	14138.520	9.294	-2.521	1.00	0.00	C
ATOM	151	C	ASNA	14137.658	8.456	-3.459	1.00	0.00	C
ATOM	152	O	ASNA	14137.807	8.520	-4.680	1.00	0.00	O
ATOM	153	CB	ASNA	14139.226	8.385	-1.513	1.00	0.00	C
ATOM	154	CG	ASNA	14139.889	9.167	-0.395	1.00	0.00	C
ATOM	155	OD1	ASNA	14139.791	8.801	0.776	1.00	0.00	O
ATOM	156	ND2	ASNA	14140.569	10.250	-0.752	1.00	0.00	N
ATOM	157	H	ASNA	14137.292	10.057	-0.975	1.00	0.00	H
ATOM	158	HA	ASNA	14139.263	9.816	-3.105	1.00	0.00	H
ATOM	159	1HB	ASNA	14138.503	7.712	-1.076	1.00	0.00	H
ATOM	160	2HB	ASNA	14139.983	7.811	-2.025	1.00	0.00	H
ATOM	161	1HD2	ASNA	14140.604	10.482	-1.704	1.00	0.00	H
ATOM	162	2HD2	ASNA	14141.006	10.774	-0.049	1.00	0.00	H
ATOM	163	N	SER A	15136.756	7.668	-2.882	1.00	0.00	N
ATOM	164	CA	SER A	15135.870	6.817	-3.666	1.00	0.00	C
ATOM	165	C	SER A	15134.814	6.168	-2.777	1.00	0.00	C
ATOM	166	O	SER A	15133.642	6.086	-3.146	1.00	0.00	O
ATOM	167	CB	SER A	15136.675	5.738	-4.392	1.00	0.00	C
ATOM	168	OG	SER A	15136.145	5.486	-5.682	1.00	0.00	O
ATOM	169	H	SER A	15136.685	7.661	-1.904	1.00	0.00	H
ATOM	170	HA	SER A	15135.375	7.438	-4.397	1.00	0.00	H
ATOM	171	1HB	SER A	15137.699	6.064	-4.495	1.00	0.00	H
ATOM	172	2HB	SER A	15136.645	4.822	-3.819	1.00	0.00	H
ATOM	173	HG	SER A	15136.794	5.013	-6.208	1.00	0.00	H
ATOM	174	N	HIS A	16135.237	5.708	-1.604	1.00	0.00	N
ATOM	175	CA	HIS A	16134.328	5.066	-0.661	1.00	0.00	C
ATOM	176	C	HIS A	16134.819	5.241	0.773	1.00	0.00	C

ATOM	177	O	HIS A	16134.579	4.390	1.629	1.00	0.00	O
ATOM	178	CB	HIS A	16134.188	3.578	-0.988	1.00	0.00	C
ATOM	179	CG	HIS A	16133.030	3.270	-1.886	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.716	3.386	-1.485	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.994	2.848	-3.173	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.921	3.048	-2.485	1.00	0.00	C
ATOM	183	NE2	HIS A	16131.672	2.718	-3.520	1.00	0.00	N
ATOM	184	H	HIS A	16136.183	5.803	-1.367	1.00	0.00	H
ATOM	185	HA	HIS A	16133.363	5.540	-0.758	1.00	0.00	H
ATOM	186	1HB	HIS A	16135.087	3.239	-1.479	1.00	0.00	H
ATOM	187	2HB	HIS A	16134.054	3.026	-0.069	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.410	3.672	-0.599	1.00	0.00	H
ATOM	189	HD2	HIS A	16133.846	2.651	-3.806	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.841	3.042	-2.461	1.00	0.00	H
ATOM	191	HE2	HIS A	16131.339	2.344	-4.363	1.00	0.00	H
ATOM	192	N	GLY A	17135.509	6.349	1.026	1.00	0.00	N
ATOM	193	CA	GLY A	17136.023	6.614	2.357	1.00	0.00	C
ATOM	194	C	GLY A	17137.291	5.838	2.655	1.00	0.00	C
ATOM	195	O	GLY A	17137.373	5.129	3.658	1.00	0.00	O
ATOM	196	H	GLY A	17135.671	6.991	0.304	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.231	7.669	2.447	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.271	6.343	3.082	1.00	0.00	H
ATOM	199	N	LEU A	18138.283	5.971	1.780	1.00	0.00	N
ATOM	200	CA	LEU A	18139.554	5.277	1.953	1.00	0.00	C
ATOM	201	C	LEU A	18140.649	6.246	2.386	1.00	0.00	C
ATOM	202	O	LEU A	18141.244	6.935	1.559	1.00	0.00	O
ATOM	203	CB	LEU A	18139.959	4.580	0.654	1.00	0.00	C
ATOM	204	CG	LEU A	18138.878	3.699	0.027	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.227	3.369	-1.416	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.695	2.424	0.837	1.00	0.00	C
ATOM	207	H	LEU A	18138.157	6.552	1.000	1.00	0.00	H

ATOM	208	HA	LEU A	18139.423	4.533	2.725	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.239	5.337	-0.064	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.822	3.963	0.855	1.00	0.00	H
ATOM	211	HG	LEU A	18137.940	4.234	0.029	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.039	2.657	-1.436	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.526	4.271	-1.929	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.364	2.944	-1.908	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.956	2.612	1.868	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.334	1.649	0.440	1.00	0.00	H
ATOM	217	3HD2	LEU A	18137.664	2.105	0.779	1.00	0.00	H
ATOM	218	N	GLU A	19140.909	6.294	3.689	1.00	0.00	N
ATOM	219	CA	GLU A	19141.933	7.179	4.232	1.00	0.00	C
ATOM	220	C	GLU A	19142.893	6.410	5.134	1.00	0.00	C
ATOM	221	O	GLU A	19142.733	5.209	5.347	1.00	0.00	O
ATOM	222	CB	GLU A	19141.286	8.323	5.014	1.00	0.00	C
ATOM	223	CG	GLU A	19140.180	7.869	5.954	1.00	0.00	C
ATOM	224	CD	GLU A	19138.807	7.933	5.313	1.00	0.00	C
ATOM	225	OE1	GLU A	19137.904	7.200	5.770	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.636	8.715	4.354	1.00	0.00	O
ATOM	227	H	GLU A	19140.400	5.720	4.299	1.00	0.00	H
ATOM	228	HA	GLU A	19142.488	7.591	3.403	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.045	8.819	5.600	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.865	9.031	4.314	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.374	6.849	6.251	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.184	8.504	6.827	1.00	0.00	H
ATOM	233	N	VAL A	20143.892	7.112	5.660	1.00	0.00	N
ATOM	234	CA	VAL A	20144.879	6.496	6.540	1.00	0.00	C
ATOM	235	C	VAL A	20144.212	5.870	7.760	1.00	0.00	C
ATOM	236	O	VAL A	20143.239	6.406	8.292	1.00	0.00	O
ATOM	237	CB	VAL A	20145.928	7.522	7.010	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.026	6.838	7.811	1.00	0.00	C

ATOM	239	CG2 VAL A	20146.514	8.269	5.820	1.00	0.00	C
ATOM	240	H VAL A	20143.967	8.068	5.452	1.00	0.00	H
ATOM	241	HA VAL A	20145.386	5.723	5.982	1.00	0.00	H
ATOM	242	HB VAL A	20145.439	8.240	7.652	1.00	0.00	H
ATOM	243	1HG1 VAL A	20147.242	5.874	7.375	1.00	0.00	H
ATOM	244	2HG1 VAL A	20146.697	6.706	8.832	1.00	0.00	H
ATOM	245	3HG1 VAL A	20147.917	7.448	7.795	1.00	0.00	H
ATOM	246	1HG2 VAL A	20146.464	7.643	4.942	1.00	0.00	H
ATOM	247	2HG2 VAL A	20147.544	8.520	6.025	1.00	0.00	H
ATOM	248	3HG2 VAL A	20145.949	9.174	5.650	1.00	0.00	H
ATOM	249	N GLY A	21144.742	4.733	8.199	1.00	0.00	N
ATOM	250	CA GLY A	21144.184	4.052	9.354	1.00	0.00	C
ATOM	251	C GLY A	21143.152	3.010	8.969	1.00	0.00	C
ATOM	252	O GLY A	21143.170	1.890	9.482	1.00	0.00	O
ATOM	253	H GLY A	21145.516	4.352	7.736	1.00	0.00	H
ATOM	254	1HA GLY A	21144.984	3.569	9.893	1.00	0.00	H
ATOM	255	2HA GLY A	21143.719	4.783	9.998	1.00	0.00	H
ATOM	256	N SER A	22142.249	3.378	8.067	1.00	0.00	N
ATOM	257	CA SER A	22141.204	2.467	7.615	1.00	0.00	C
ATOM	258	C SER A	22141.786	1.358	6.747	1.00	0.00	C
ATOM	259	O SER A	22142.822	1.538	6.104	1.00	0.00	O
ATOM	260	CB SER A	22140.134	3.232	6.834	1.00	0.00	C
ATOM	261	OG SER A	22139.423	4.122	7.678	1.00	0.00	O
ATOM	262	H SER A	22142.286	4.284	7.696	1.00	0.00	H
ATOM	263	HA SER A	22140.750	2.024	8.489	1.00	0.00	H
ATOM	264	1HB SER A	22140.604	3.802	6.047	1.00	0.00	H
ATOM	265	2HB SER A	22139.435	2.531	6.403	1.00	0.00	H
ATOM	266	HG SER A	22138.513	4.188	7.381	1.00	0.00	H
ATOM	267	N LEU A	23141.116	0.211	6.730	1.00	0.00	N
ATOM	268	CA LEU A	23141.567	-0.929	5.940	1.00	0.00	C
ATOM	269	C LEU A	23141.124	-0.794	4.487	1.00	0.00	C

ATOM	270	O	LEU A	23140.077	-0.212	4.198	1.00	0.00	O
ATOM	271	CB	LEU A	23141.027	-2.233	6.531	1.00	0.00	C
ATOM	272	CG	LEU A	23141.478	-2.531	7.961	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.431	-3.358	8.690	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.820	-3.250	7.957	1.00	0.00	C
ATOM	275	H	LEU A	23140.297	0.128	7.263	1.00	0.00	H
ATOM	276	HA	LEU A	23142.646	-0.949	5.974	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.947	-2.188	6.518	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.345	-3.049	5.899	1.00	0.00	H
ATOM	279	HG	LEU A	23141.599	-1.599	8.496	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.753	-2.701	9.213	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.918	-4.011	9.400	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.879	-3.950	7.975	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.428	-2.871	7.148	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.659	-4.309	7.822	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.323	-3.079	8.896	1.00	0.00	H
ATOM	286	N	ALA A	24141.926	-1.332	3.576	1.00	0.00	N
ATOM	287	CA	ALA A	24141.616	-1.272	2.153	1.00	0.00	C
ATOM	288	C	ALA A	24142.176	-2.483	1.414	1.00	0.00	C
ATOM	289	O	ALA A	24143.212	-3.029	1.794	1.00	0.00	O
ATOM	290	CB	ALA A	24142.160	0.014	1.549	1.00	0.00	C
ATOM	291	H	ALA A	24142.746	-1.783	3.867	1.00	0.00	H
ATOM	292	HA	ALA A	24140.541	-1.265	2.046	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.945	0.035	0.491	1.00	0.00	H
ATOM	294	2HB	ALA A	24143.229	0.059	1.700	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.694	0.863	2.027	1.00	0.00	H
ATOM	296	N	GLU A	25141.485	-2.897	0.357	1.00	0.00	N
ATOM	297	CA	GLU A	25141.914	-4.044	-0.436	1.00	0.00	C
ATOM	298	C	GLU A	25142.278	-3.617	-1.855	1.00	0.00	C
ATOM	299	O	GLU A	25141.740	-2.641	-2.377	1.00	0.00	O
ATOM	300	CB	GLU A	25140.812	-5.104	-0.475	1.00	0.00	C

ATOM	301	CG	GLU A	25141.271	-6.438	-1.041	1.00	0.00	C
ATOM	302	CD	GLU A	25140.118	-7.287	-1.539	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.180	-8.524	-1.381	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.154	-6.715	-2.089	1.00	0.00	O
ATOM	305	H	GLU A	25140.668	-2.420	0.104	1.00	0.00	H
ATOM	306	HA	GLU A	25142.790	-4.465	0.037	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.451	-5.267	0.528	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.000	-4.739	-1.087	1.00	0.00	H
ATOM	309	1HG	GLU A	25141.944	-6.253	-1.865	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.793	-6.982	-0.267	1.00	0.00	H
ATOM	311	N	VAL A	26143.193	-4.356	-2.473	1.00	0.00	N
ATOM	312	CA	VAL A	26143.628	-4.055	-3.833	1.00	0.00	C
ATOM	313	C	VAL A	26143.295	-5.201	-4.783	1.00	0.00	C
ATOM	314	O	VAL A	26143.563	-6.365	-4.486	1.00	0.00	O
ATOM	315	CB	VAL A	26145.142	-3.779	-3.889	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.542	-3.276	-5.268	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.544	-2.784	-2.812	1.00	0.00	C
ATOM	318	H	VAL A	26143.585	-5.123	-2.005	1.00	0.00	H
ATOM	319	HA	VAL A	26143.108	-3.166	-4.160	1.00	0.00	H
ATOM	320	HB	VAL A	26145.664	-4.708	-3.706	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.881	-4.106	-5.870	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.338	-2.552	-5.170	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.690	-2.811	-5.743	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.218	-1.794	-3.097	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.618	-2.790	-2.699	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.082	-3.061	-1.876	1.00	0.00	H
ATOM	327	N	LYS A	27142.711	-4.862	-5.928	1.00	0.00	N
ATOM	328	CA	LYS A	27142.343	-5.861	-6.923	1.00	0.00	C
ATOM	329	C	LYS A	27143.544	-6.240	-7.783	1.00	0.00	C
ATOM	330	O	LYS A	27143.826	-5.593	-8.793	1.00	0.00	O
ATOM	331	CB	LYS A	27141.211	-5.337	-7.809	1.00	0.00	C

ATOM	332	CG	LYS A	27139.824	-5.630	-7.261	1.00	0.00	C
ATOM	333	CD	LYS A	27138.839	-4.529	-7.622	1.00	0.00	C
ATOM	334	CE	LYS A	27137.412	-5.050	-7.659	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.180	-5.955	-8.818	1.00	0.00	N
ATOM	336	H	LYS A	27142.524	-3.916	-6.107	1.00	0.00	H
ATOM	337	HA	LYS A	27142.000	-6.741	-6.399	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.316	-4.267	-7.911	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.293	-5.792	-8.785	1.00	0.00	H
ATOM	340	1HG	LYS A	27139.474	-6.563	-7.675	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.883	-5.709	-6.184	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.906	-3.743	-6.886	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.095	-4.136	-8.595	1.00	0.00	H
ATOM	344	1HE	LYS A	27137.216	-5.592	-6.746	1.00	0.00	H
ATOM	345	2HE	LYS A	27136.737	-4.209	-7.728	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.080	-6.370	-9.134	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.760	-5.425	-9.607	1.00	0.00	H
ATOM	348	3HZ	LYS A	27136.531	-6.722	-8.548	1.00	0.00	H
ATOM	349	N	GLU A	28144.248	-7.292	-7.378	1.00	0.00	N
ATOM	350	CA	GLU A	28145.419	-7.756	-8.113	1.00	0.00	C
ATOM	351	C	GLU A	28145.464	-9.280	-8.158	1.00	0.00	C
ATOM	352	O	GLU A	28144.576	-9.953	-7.632	1.00	0.00	O
ATOM	353	CB	GLU A	28146.698	-7.213	-7.470	1.00	0.00	C
ATOM	354	CG	GLU A	28147.678	-6.624	-8.470	1.00	0.00	C
ATOM	355	CD	GLU A	28147.048	-5.559	-9.346	1.00	0.00	C
ATOM	356	OE1	GLU A	28147.122	-4.368	-8.979	1.00	0.00	O
ATOM	357	OE2	GLU A	28146.480	-5.916	-10.400	1.00	0.00	O
ATOM	358	H	GLU A	28143.974	-7.767	-6.566	1.00	0.00	H
ATOM	359	HA	GLU A	28145.348	-7.381	-9.123	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.432	-6.442	-6.762	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.194	-8.016	-6.944	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.502	-6.180	-7.931	1.00	0.00	H

ATOM	363	2HG	GLU A	28148.049	-7.417	-9.103	1.00	0.00	H
ATOM	364	N	ASN A	29146.504	-9.819	-8.786	1.00	0.00	N
ATOM	365	CA	ASN A	29146.664	-11.264	-8.897	1.00	0.00	C
ATOM	366	C	ASN A	29146.770	-11.906	-7.515	1.00	0.00	C
ATOM	367	O	ASN A	29145.957	-12.756	-7.154	1.00	0.00	O
ATOM	368	CB	ASN A	29147.905	-11.598	-9.727	1.00	0.00	C
ATOM	369	CG	ASN A	29147.568	-11.905	-11.173	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.707	-13.040	-11.628	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.121	-10.890	-11.905	1.00	0.00	N
ATOM	372	H	ASN A	29147.179	-9.231	-9.184	1.00	0.00	H
ATOM	373	HA	ASN A	29145.791	-11.656	-9.396	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.582	-10.758	-9.706	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.395	-12.461	-9.300	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.036	-10.013	-11.476	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.896	-11.059	-12.842	1.00	0.00	H
ATOM	378	N	PRO A	30147.778	-11.503	-6.723	1.00	0.00	N
ATOM	379	CA	PRO A	30147.987	-12.042	-5.377	1.00	0.00	C
ATOM	380	C	PRO A	30147.010	-11.453	-4.360	1.00	0.00	C
ATOM	381	O	PRO A	30147.110	-10.279	-4.003	1.00	0.00	O
ATOM	382	CB	PRO A	30149.417	-11.613	-5.053	1.00	0.00	C
ATOM	383	CG	PRO A	30149.612	-10.350	-5.820	1.00	0.00	C
ATOM	384	CD	PRO A	30148.794	-10.492	-7.077	1.00	0.00	C
ATOM	385	HA	PRO A	30147.919	-13.119	-5.365	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.514	-11.450	-3.989	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.108	-12.378	-5.371	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.261	-9.510	-5.238	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.656	-10.228	-6.065	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.328	-9.553	-7.331	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.413	-10.838	-7.892	1.00	0.00	H
ATOM	392	N	PRO A	31146.049	-12.260	-3.875	1.00	0.00	N
ATOM	393	CA	PRO A	31145.058	-11.803	-2.895	1.00	0.00	C



ATOM	394	C	PRO A	31145.678	-11.530	-1.530	1.00	0.00	C
ATOM	395	O	PRO A	31145.993	-12.457	-0.783	1.00	0.00	O
ATOM	396	CB	PRO A	31144.073	-12.971	-2.811	1.00	0.00	C
ATOM	397	CG	PRO A	31144.865	-14.165	-3.217	1.00	0.00	C
ATOM	398	CD	PRO A	31145.851	-13.676	-4.241	1.00	0.00	C
ATOM	399	HA	PRO A	31144.543	-10.918	-3.239	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.707	-13.064	-1.799	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.247	-12.798	-3.485	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.383	-14.570	-2.361	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.213	-14.909	-3.651	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.777	-14.227	-4.165	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.439	-13.763	-5.235	1.00	0.00	H
ATOM	406	N	PHE A	32145.851	-10.252	-1.209	1.00	0.00	N
ATOM	407	CA	PHE A	32146.434	-9.855	0.067	1.00	0.00	C
ATOM	408	C	PHE A	32145.612	-8.748	0.720	1.00	0.00	C
ATOM	409	O	PHE A	32144.860	-8.042	0.049	1.00	0.00	O
ATOM	410	CB	PHE A	32147.877	-9.388	-0.130	1.00	0.00	C
ATOM	411	CG	PHE A	32148.019	-8.298	-1.154	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.534	-7.025	-0.902	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.640	-8.547	-2.368	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.664	-6.020	-1.841	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.773	-7.546	-3.312	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.284	-6.282	-3.048	1.00	0.00	C
ATOM	417	H	PHE A	32145.580	-9.558	-1.846	1.00	0.00	H
ATOM	418	HA	PHE A	32146.430	-10.719	0.715	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.258	-9.013	0.808	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.479	-10.226	-0.449	1.00	0.00	H
ATOM	421	HD1	PHE A	32147.050	-6.820	0.041	1.00	0.00	H
ATOM	422	HD2	PHE A	32149.021	-9.536	-2.575	1.00	0.00	H
ATOM	423	HE1	PHE A	32147.282	-5.032	-1.634	1.00	0.00	H
ATOM	424	HE2	PHE A	32149.257	-7.753	-4.255	1.00	0.00	H

ATOM	425	HZ	PHE A	32148.387	-5.497	-3.785	1.00	0.00	H
ATOM	426	N	TYR A	33145.762	-8.603	2.033	1.00	0.00	N
ATOM	427	CA	TYR A	33145.034	-7.581	2.776	1.00	0.00	C
ATOM	428	C	TYR A	33145.997	-6.644	3.499	1.00	0.00	C
ATOM	429	O	TYR A	33147.087	-7.049	3.903	1.00	0.00	O
ATOM	430	CB	TYR A	33144.087	-8.234	3.785	1.00	0.00	C
ATOM	431	CG	TYR A	33142.732	-8.579	3.208	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.918	-7.595	2.662	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.269	-9.888	3.211	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.679	-7.907	2.134	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.032	-10.209	2.685	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.241	-9.215	2.148	1.00	0.00	C
ATOM	437	OH	TYR A	33139.009	-9.529	1.623	1.00	0.00	O
ATOM	438	H	TYR A	33146.377	-9.197	2.512	1.00	0.00	H
ATOM	439	HA	TYR A	33144.454	-7.007	2.070	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.533	-9.146	4.150	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.933	-7.557	4.614	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.264	-6.572	2.652	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.890	-10.665	3.633	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.061	-7.129	1.713	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.689	-11.232	2.695	1.00	0.00	H
ATOM	446	HH	TYR A	33139.108	-9.788	0.703	1.00	0.00	H
ATOM	447	N	GLY A	34145.588	-5.390	3.655	1.00	0.00	N
ATOM	448	CA	GLY A	34146.426	-4.415	4.328	1.00	0.00	C
ATOM	449	C	GLY A	34145.678	-3.140	4.665	1.00	0.00	C
ATOM	450	O	GLY A	34144.607	-2.877	4.118	1.00	0.00	O
ATOM	451	H	GLY A	34144.709	-5.124	3.312	1.00	0.00	H
ATOM	452	1HA	GLY A	34146.802	-4.851	5.242	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.260	-4.172	3.688	1.00	0.00	H
ATOM	454	N	VAL A	35146.244	-2.346	5.568	1.00	0.00	N
ATOM	455	CA	VAL A	35145.624	-1.091	5.977	1.00	0.00	C

ATOM	456	C	VAL A	35146.363	0.106	5.385	1.00	0.00	C
ATOM	457	O	VAL A	35147.579	0.065	5.197	1.00	0.00	O
ATOM	458	CB	VAL A	35145.590	-0.957	7.512	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.001	-0.934	8.085	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.819	0.290	7.924	1.00	0.00	C
ATOM	461	H	VAL A	35147.099	-2.610	5.969	1.00	0.00	H
ATOM	462	HA	VAL A	35144.607	-1.089	5.613	1.00	0.00	H
ATOM	463	HB	VAL A	35145.078	-1.818	7.917	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.266	0.078	8.350	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.694	-1.306	7.345	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.042	-1.560	8.964	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.219	1.148	7.405	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.916	0.437	8.990	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.777	0.168	7.671	1.00	0.00	H
ATOM	470	N	ILE A	36145.621	1.169	5.094	1.00	0.00	N
ATOM	471	CA	ILE A	36146.207	2.375	4.523	1.00	0.00	C
ATOM	472	C	ILE A	36147.145	3.051	5.518	1.00	0.00	C
ATOM	473	O	ILE A	36146.891	3.051	6.723	1.00	0.00	O
ATOM	474	CB	ILE A	36145.120	3.381	4.093	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.081	2.694	3.203	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.747	4.563	3.367	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.977	3.619	2.739	1.00	0.00	C
ATOM	478	H	ILE A	36144.656	1.141	5.267	1.00	0.00	H
ATOM	479	HA	ILE A	36146.771	2.090	3.647	1.00	0.00	H
ATOM	480	HB	ILE A	36144.634	3.753	4.981	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.572	2.298	2.327	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.626	1.883	3.753	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.978	5.272	3.103	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.239	4.214	2.471	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.472	5.038	4.013	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.311	4.643	2.812	1.00	0.00	H

ATOM	487	2HD1	ILE A	36142.105	3.479	3.360	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.728	3.394	1.711	1.00	0.00	H
ATOM	489	N	ARG A	37148.228	3.626	5.006	1.00	0.00	N
ATOM	490	CA	ARG A	37149.204	4.304	5.850	1.00	0.00	C
ATOM	491	C	ARG A	37149.446	5.729	5.366	1.00	0.00	C
ATOM	492	O	ARG A	37149.122	6.695	6.059	1.00	0.00	O
ATOM	493	CB	ARG A	37150.523	3.529	5.865	1.00	0.00	C
ATOM	494	CG	ARG A	37150.357	2.054	6.182	1.00	0.00	C
ATOM	495	CD	ARG A	37150.282	1.811	7.681	1.00	0.00	C
ATOM	496	NE	ARG A	37149.059	2.357	8.264	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.901	2.596	9.564	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.884	2.341	10.419	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.755	3.094	10.011	1.00	0.00	N
ATOM	500	H	ARG A	37148.374	3.592	4.037	1.00	0.00	H
ATOM	501	HA	ARG A	37148.808	4.340	6.853	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.989	3.617	4.894	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.174	3.964	6.608	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.445	1.696	5.725	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.200	1.511	5.780	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.312	0.748	7.862	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.134	2.279	8.150	1.00	0.00	H
ATOM	508	HE	ARG A	37148.317	2.555	7.656	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.750	1.966	10.088	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.759	2.524	11.393	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.012	3.289	9.372	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.636	3.274	10.988	1.00	0.00	H
ATOM	513	N	TRP A	38150.018	5.857	4.174	1.00	0.00	N
ATOM	514	CA	TRP A	38150.303	7.167	3.600	1.00	0.00	C
ATOM	515	C	TRP A	38149.570	7.354	2.273	1.00	0.00	C
ATOM	516	O	TRP A	38149.606	6.486	1.403	1.00	0.00	O
ATOM	517	CB	TRP A	38151.811	7.343	3.394	1.00	0.00	C

ATOM	518	CG	TRP A	38152.167	8.555	2.584	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.439	9.807	3.055	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.280	8.629	1.158	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.716	10.655	2.009	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.626	9.954	0.834	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.126	7.701	0.124	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.817	10.374	-0.480	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.317	8.119	-1.180	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.659	9.445	-1.472	1.00	0.00	C
ATOM	527	H	TRP A	38150.254	5.050	3.669	1.00	0.00	H
ATOM	528	HA	TRP A	38149.955	7.915	4.296	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.290	7.435	4.358	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.202	6.474	2.885	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.434	10.079	4.100	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.942	11.605	2.091	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.862	6.676	0.329	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.078	11.394	-0.723	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.201	7.416	-1.991	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.798	9.727	-2.506	1.00	0.00	H
ATOM	537	N	ILE A	39148.917	8.501	2.127	1.00	0.00	N
ATOM	538	CA	ILE A	39148.186	8.818	0.908	1.00	0.00	C
ATOM	539	C	ILE A	39148.671	10.138	0.321	1.00	0.00	C
ATOM	540	O	ILE A	39148.372	11.210	0.847	1.00	0.00	O
ATOM	541	CB	ILE A	39146.670	8.909	1.166	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.190	7.688	1.952	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.914	9.031	-0.149	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.834	7.878	2.597	1.00	0.00	C
ATOM	545	H	ILE A	39148.935	9.157	2.857	1.00	0.00	H
ATOM	546	HA	ILE A	39148.365	8.027	0.193	1.00	0.00	H
ATOM	547	HB	ILE A	39146.478	9.800	1.746	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.124	6.842	1.286	1.00	0.00	H

ATOM	549	2HG1	ILE A	39146.901	7.469	2.735	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.209	9.940	-0.650	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.853	9.054	0.047	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.147	8.182	-0.776	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.207	7.029	2.372	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.375	8.777	2.211	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.953	7.966	3.666	1.00	0.00	H
ATOM	556	N	GLY A	40149.430	10.056	-0.768	1.00	0.00	N
ATOM	557	CA	GLY A	40149.949	11.255	-1.397	1.00	0.00	C
ATOM	558	C	GLY A	40150.476	11.005	-2.796	1.00	0.00	C
ATOM	559	O	GLY A	40150.229	9.951	-3.382	1.00	0.00	O
ATOM	560	H	GLY A	40149.641	9.176	-1.144	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.161	11.991	-1.449	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.750	11.647	-0.788	1.00	0.00	H
ATOM	563	N	GLN A	41151.202	11.981	-3.330	1.00	0.00	N
ATOM	564	CA	GLN A	41151.768	11.874	-4.667	1.00	0.00	C
ATOM	565	C	GLN A	41153.268	12.169	-4.645	1.00	0.00	C
ATOM	566	O	GLN A	41153.680	13.290	-4.342	1.00	0.00	O
ATOM	567	CB	GLN A	41151.058	12.843	-5.612	1.00	0.00	C
ATOM	568	CG	GLN A	41149.543	12.769	-5.531	1.00	0.00	C
ATOM	569	CD	GLN A	41148.888	14.133	-5.604	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.913	14.900	-4.641	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.296	14.444	-6.750	1.00	0.00	N
ATOM	572	H	GLN A	41151.360	12.796	-2.811	1.00	0.00	H
ATOM	573	HA	GLN A	41151.612	10.865	-5.016	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.361	13.850	-5.368	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.356	12.623	-6.624	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.179	12.169	-6.352	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.266	12.302	-4.597	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.315	13.784	-7.474	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.866	15.321	-6.827	1.00	0.00	H

ATOM	580	N	PRO A	42154.108	11.168	-4.962	1.00	0.00	N
ATOM	581	CA	PRO A	42155.566	11.336	-4.971	1.00	0.00	C
ATOM	582	C	PRO A	42156.014	12.453	-5.908	1.00	0.00	C
ATOM	583	O	PRO A	42155.280	12.847	-6.814	1.00	0.00	O
ATOM	584	CB	PRO A	42156.085	9.983	-5.467	1.00	0.00	C
ATOM	585	CG	PRO A	42154.986	9.022	-5.171	1.00	0.00	C
ATOM	586	CD	PRO A	42153.712	9.798	-5.334	1.00	0.00	C
ATOM	587	HA	PRO A	42155.947	11.528	-3.978	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.287	10.038	-6.527	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.989	9.723	-4.936	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.017	8.199	-5.869	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.077	8.659	-4.157	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.374	9.759	-6.360	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.951	9.422	-4.667	1.00	0.00	H
ATOM	594	N	PRO A	43157.233	12.979	-5.702	1.00	0.00	N
ATOM	595	CA	PRO A	43157.777	14.056	-6.534	1.00	0.00	C
ATOM	596	C	PRO A	43158.155	13.574	-7.929	1.00	0.00	C
ATOM	597	O	PRO A	43159.298	13.186	-8.174	1.00	0.00	O
ATOM	598	CB	PRO A	43159.025	14.499	-5.769	1.00	0.00	C
ATOM	599	CG	PRO A	43159.441	13.297	-4.994	1.00	0.00	C
ATOM	600	CD	PRO A	43158.174	12.565	-4.644	1.00	0.00	C
ATOM	601	HA	PRO A	43157.087	14.882	-6.614	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.788	14.801	-6.470	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.777	15.322	-5.117	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.079	12.671	-5.601	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.957	13.601	-4.095	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.335	11.498	-4.668	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.817	12.873	-3.672	1.00	0.00	H
ATOM	608	N	GLY A	44157.190	13.600	-8.840	1.00	0.00	N
ATOM	609	CA	GLY A	44157.445	13.163	-10.199	1.00	0.00	C
ATOM	610	C	GLY A	44156.181	12.744	-10.922	1.00	0.00	C

ATOM	611	O	GLY A	44155.911	13.204	-12.031	1.00	0.00	O
ATOM	612	H	GLY A	44156.298	13.919	-8.589	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.907	13.971	-10.745	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.126	12.325	-10.175	1.00	0.00	H
ATOM	615	N	LEU A	45155.404	11.870	-10.292	1.00	0.00	N
ATOM	616	CA	LEU A	45154.160	11.392	-10.885	1.00	0.00	C
ATOM	617	C	LEU A	45152.973	11.708	-9.985	1.00	0.00	C
ATOM	618	O	LEU A	45152.855	11.166	-8.887	1.00	0.00	O
ATOM	619	CB	LEU A	45154.235	9.885	-11.138	1.00	0.00	C
ATOM	620	CG	LEU A	45154.759	9.057	-9.963	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.329	7.602	-10.098	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.276	9.165	-9.870	1.00	0.00	C
ATOM	623	H	LEU A	45155.669	11.540	-9.406	1.00	0.00	H
ATOM	624	HA	LEU A	45154.026	11.899	-11.829	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.244	9.533	-11.385	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.882	9.715	-11.985	1.00	0.00	H
ATOM	627	HG	LEU A	45154.340	9.444	-9.045	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.655	7.351	-9.292	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.198	6.963	-10.053	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.827	7.460	-11.044	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.700	8.182	-9.733	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.541	9.792	-9.032	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.661	9.600	-10.781	1.00	0.00	H
ATOM	634	N	ASN A	46152.092	12.585	-10.453	1.00	0.00	N
ATOM	635	CA	ASN A	46150.917	12.960	-9.678	1.00	0.00	C
ATOM	636	C	ASN A	46149.897	11.827	-9.676	1.00	0.00	C
ATOM	637	O	ASN A	46149.248	11.560	-10.688	1.00	0.00	O
ATOM	638	CB	ASN A	46150.287	14.231	-10.253	1.00	0.00	C
ATOM	639	CG	ASN A	46149.594	15.064	-9.194	1.00	0.00	C
ATOM	640	OD1	ASN A	46150.201	15.450	-8.195	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.314	15.348	-9.407	1.00	0.00	N



ATOM	642	H	ASN A	46152.233	12.986	-11.337	1.00	0.00	H
ATOM	643	HA	ASN A	46151.232	13.150	-8.662	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.059	14.833	-10.709	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.560	13.957	-11.002	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.894	15.007	-10.225	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.841	15.886	-8.738	1.00	0.00	H
ATOM	648	N	GLU A	47149.764	11.164	-8.533	1.00	0.00	N
ATOM	649	CA	GLU A	47148.825	10.057	-8.394	1.00	0.00	C
ATOM	650	C	GLU A	47148.632	9.691	-6.927	1.00	0.00	C
ATOM	651	O	GLU A	47149.588	9.338	-6.237	1.00	0.00	O
ATOM	652	CB	GLU A	47149.318	8.836	-9.176	1.00	0.00	C
ATOM	653	CG	GLU A	47150.823	8.625	-9.095	1.00	0.00	C
ATOM	654	CD	GLU A	47151.334	7.670	-10.157	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.504	8.106	-11.316	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.564	6.487	-9.830	1.00	0.00	O
ATOM	657	H	GLU A	47150.311	11.425	-7.764	1.00	0.00	H
ATOM	658	HA	GLU A	47147.877	10.375	-8.802	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.833	7.955	-8.786	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.049	8.956	-10.215	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.315	9.577	-9.225	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.067	8.224	-8.123	1.00	0.00	H
ATOM	663	N	VAL A	48147.394	9.770	-6.455	1.00	0.00	N
ATOM	664	CA	VAL A	48147.090	9.436	-5.070	1.00	0.00	C
ATOM	665	C	VAL A	48147.386	7.966	-4.794	1.00	0.00	C
ATOM	666	O	VAL A	48146.588	7.090	-5.124	1.00	0.00	O
ATOM	667	CB	VAL A	48145.617	9.726	-4.729	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.372	9.565	-3.236	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.225	11.120	-5.195	1.00	0.00	C
ATOM	670	H	VAL A	48146.669	10.052	-7.051	1.00	0.00	H
ATOM	671	HA	VAL A	48147.715	10.046	-4.434	1.00	0.00	H
ATOM	672	HB	VAL A	48144.999	9.009	-5.251	1.00	0.00	H

ATOM	673	1HG1 VAL A	48144.386	9.932	-2.992	1.00	0.00	H
ATOM	674	2HG1 VAL A	48146.111	10.129	-2.688	1.00	0.00	H
ATOM	675	3HG1 VAL A	48145.443	8.522	-2.970	1.00	0.00	H
ATOM	676	1HG2 VAL A	48144.827	11.066	-6.197	1.00	0.00	H
ATOM	677	2HG2 VAL A	48146.096	11.759	-5.187	1.00	0.00	H
ATOM	678	3HG2 VAL A	48144.476	11.525	-4.530	1.00	0.00	H
ATOM	679	N LEU A	49148.540	7.705	-4.191	1.00	0.00	N
ATOM	680	CA LEU A	49148.943	6.339	-3.876	1.00	0.00	C
ATOM	681	C LEU A	49148.854	6.082	-2.378	1.00	0.00	C
ATOM	682	O LEU A	49149.567	6.701	-1.587	1.00	0.00	O
ATOM	683	CB LEU A	49150.369	6.080	-4.366	1.00	0.00	C
ATOM	684	CG LEU A	49150.575	6.243	-5.874	1.00	0.00	C
ATOM	685	CD1 LEU A	49152.038	6.510	-6.186	1.00	0.00	C
ATOM	686	CD2 LEU A	49150.086	5.007	-6.614	1.00	0.00	C
ATOM	687	H LEU A	49149.136	8.445	-3.954	1.00	0.00	H
ATOM	688	HA LEU A	49148.269	5.669	-4.385	1.00	0.00	H
ATOM	689	1HB LEU A	49151.033	6.764	-3.857	1.00	0.00	H
ATOM	690	2HB LEU A	49150.642	5.071	-4.095	1.00	0.00	H
ATOM	691	HG LEU A	49150.000	7.090	-6.218	1.00	0.00	H
ATOM	692	1HD1 LEU A	49152.291	6.063	-7.136	1.00	0.00	H
ATOM	693	2HD1 LEU A	49152.657	6.081	-5.411	1.00	0.00	H
ATOM	694	3HD1 LEU A	49152.208	7.576	-6.233	1.00	0.00	H
ATOM	695	1HD2 LEU A	49149.062	5.156	-6.924	1.00	0.00	H
ATOM	696	2HD2 LEU A	49150.143	4.150	-5.959	1.00	0.00	H
ATOM	697	3HD2 LEU A	49150.704	4.840	-7.482	1.00	0.00	H
ATOM	698	N ALAA	50147.974	5.167	-1.992	1.00	0.00	N
ATOM	699	CA ALAA	50147.792	4.831	-0.587	1.00	0.00	C
ATOM	700	C ALAA	50148.688	3.666	-0.182	1.00	0.00	C
ATOM	701	O ALAA	50148.525	2.546	-0.669	1.00	0.00	O
ATOM	702	CB ALAA	50146.333	4.503	-0.306	1.00	0.00	C
ATOM	703	H ALAA	50147.433	4.707	-2.668	1.00	0.00	H

ATOM	704	HA	ALA A	50148.061	5.700	-0.004	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.211	3.432	-0.242	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.718	4.888	-1.105	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.036	4.956	0.628	1.00	0.00	H
ATOM	708	N	GLY A	51149.636	3.935	0.710	1.00	0.00	N
ATOM	709	CA	GLY A	51150.544	2.898	1.164	1.00	0.00	C
ATOM	710	C	GLY A	51149.868	1.892	2.075	1.00	0.00	C
ATOM	711	O	GLY A	51149.409	2.241	3.164	1.00	0.00	O
ATOM	712	H	GLY A	51149.719	4.845	1.063	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.938	2.379	0.303	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.361	3.359	1.699	1.00	0.00	H
ATOM	715	N	LEU A	52149.805	0.641	1.630	1.00	0.00	N
ATOM	716	CA	LEU A	52149.180	-0.418	2.412	1.00	0.00	C
ATOM	717	C	LEU A	52150.233	-1.315	3.054	1.00	0.00	C
ATOM	718	O	LEU A	52151.307	-1.530	2.492	1.00	0.00	O
ATOM	719	CB	LEU A	52148.252	-1.254	1.528	1.00	0.00	C
ATOM	720	CG	LEU A	52147.044	-0.503	0.965	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.417	-1.283	-0.179	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.020	-0.245	2.061	1.00	0.00	C
ATOM	723	H	LEU A	52150.189	0.427	0.754	1.00	0.00	H
ATOM	724	HA	LEU A	52148.597	0.047	3.193	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.829	-1.639	0.700	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.889	-2.088	2.110	1.00	0.00	H
ATOM	727	HG	LEU A	52147.370	0.453	0.579	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.575	-0.733	-0.572	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.083	-2.245	0.181	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.149	-1.426	-0.960	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.499	0.255	2.889	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.608	-1.185	2.397	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.228	0.377	1.673	1.00	0.00	H
ATOM	734	N	GLU A	53149.920	-1.837	4.235	1.00	0.00	N

ATOM	735	CA	GLU A	53150.839	-2.711	4.955	1.00	0.00	C
ATOM	736	C	GLU A	53150.313	-4.142	4.991	1.00	0.00	C
ATOM	737	O	GLU A	53149.343	-4.440	5.687	1.00	0.00	O
ATOM	738	CB	GLU A	53151.054	-2.198	6.380	1.00	0.00	C
ATOM	739	CG	GLU A	53152.076	-3.001	7.168	1.00	0.00	C
ATOM	740	CD	GLU A	53151.719	-3.118	8.637	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.550	-3.430	8.941	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.611	-2.896	9.484	1.00	0.00	O
ATOM	743	H	GLU A	53149.049	-1.629	4.633	1.00	0.00	H
ATOM	744	HA	GLU A	53151.784	-2.700	4.431	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.391	-1.173	6.335	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.113	-2.236	6.909	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.135	-3.995	6.748	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.039	-2.518	7.082	1.00	0.00	H
ATOM	749	N	LEU A	54150.962	-5.024	4.237	1.00	0.00	N
ATOM	750	CA	LEU A	54150.559	-6.425	4.184	1.00	0.00	C
ATOM	751	C	LEU A	54150.879	-7.133	5.496	1.00	0.00	C
ATOM	752	O	LEU A	54151.963	-6.967	6.054	1.00	0.00	O
ATOM	753	CB	LEU A	54151.260	-7.134	3.023	1.00	0.00	C
ATOM	754	CG	LEU A	54151.173	-6.415	1.676	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.099	-7.067	0.662	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.740	-6.410	1.167	1.00	0.00	C
ATOM	757	H	LEU A	54151.728	-4.727	3.704	1.00	0.00	H
ATOM	758	HA	LEU A	54149.492	-6.457	4.021	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.303	-7.253	3.279	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.821	-8.114	2.910	1.00	0.00	H
ATOM	761	HG	LEU A	54151.487	-5.389	1.803	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.425	-6.328	-0.056	1.00	0.00	H
ATOM	763	2HD1	LEU A	54151.572	-7.857	0.149	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.958	-7.479	1.171	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.733	-6.184	0.111	1.00	0.00	H

ATOM	766	2HD2	LEU A	54149.172	-5.661	1.699	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.297	-7.381	1.331	1.00	0.00	H
ATOM	768	N	GLU A	55149.927	-7.923	5.983	1.00	0.00	N
ATOM	769	CA	GLU A	55150.107	-8.656	7.231	1.00	0.00	C
ATOM	770	C	GLU A	55151.145	-9.762	7.068	1.00	0.00	C
ATOM	771	O	GLU A	55151.941	-10.018	7.971	1.00	0.00	O
ATOM	772	CB	GLU A	55148.777	-9.253	7.693	1.00	0.00	C
ATOM	773	CG	GLU A	55147.874	-8.254	8.399	1.00	0.00	C
ATOM	774	CD	GLU A	55146.405	-8.609	8.276	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.074	-9.809	8.379	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.587	-7.687	8.079	1.00	0.00	O
ATOM	777	H	GLU A	55149.084	-8.014	5.493	1.00	0.00	H
ATOM	778	HA	GLU A	55150.457	-7.958	7.978	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.249	-9.636	6.832	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.978	-10.067	8.373	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.136	-8.228	9.445	1.00	0.00	H
ATOM	782	2HG	GLU A	55148.031	-7.277	7.964	1.00	0.00	H
ATOM	783	N	ASP A	56151.131	-10.414	5.910	1.00	0.00	N
ATOM	784	CA	ASP A	56152.071	-11.493	5.629	1.00	0.00	C
ATOM	785	C	ASP A	56153.436	-10.937	5.235	1.00	0.00	C
ATOM	786	O	ASP A	56153.564	-10.234	4.232	1.00	0.00	O
ATOM	787	CB	ASP A	56151.531	-12.390	4.514	1.00	0.00	C
ATOM	788	CG	ASP A	56150.706	-13.544	5.048	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.498	-13.344	5.299	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.266	-14.647	5.216	1.00	0.00	O
ATOM	791	H	ASP A	56150.472	-10.164	5.228	1.00	0.00	H
ATOM	792	HA	ASP A	56152.181	-12.079	6.529	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.910	-11.802	3.855	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.361	-12.794	3.952	1.00	0.00	H
ATOM	795	N	GLU A	57154.450	-11.257	6.030	1.00	0.00	N
ATOM	796	CA	GLU A	57155.806	-10.789	5.765	1.00	0.00	C

ATOM	797	C	GLU A	57156.388	-11.479	4.536	1.00	0.00	C
ATOM	798	O	GLU A	57156.885	-12.602	4.617	1.00	0.00	O
ATOM	799	CB	GLU A	57156.703	-11.045	6.978	1.00	0.00	C
ATOM	800	CG	GLU A	57156.726	-9.893	7.971	1.00	0.00	C
ATOM	801	CD	GLU A	57158.025	-9.819	8.748	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.589	-8.710	8.857	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.478	-10.870	9.247	1.00	0.00	O
ATOM	804	H	GLU A	57154.285	-11.820	6.814	1.00	0.00	H
ATOM	805	HA	GLU A	57155.760	-9.727	5.580	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.352	-11.927	7.492	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.712	-11.216	6.636	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.593	-8.967	7.431	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.912	-10.021	8.669	1.00	0.00	H
ATOM	810	N	CYS A	58156.324	-10.798	3.395	1.00	0.00	N
ATOM	811	CA	CYS A	58156.845	-11.345	2.148	1.00	0.00	C
ATOM	812	C	CYS A	58158.162	-10.675	1.768	1.00	0.00	C
ATOM	813	O	CYS A	58158.232	-9.454	1.635	1.00	0.00	O
ATOM	814	CB	CYS A	58155.824	-11.166	1.023	1.00	0.00	C
ATOM	815	SG	CYS A	58155.774	-12.540	-0.153	1.00	0.00	S
ATOM	816	H	CYS A	58155.917	-9.907	3.394	1.00	0.00	H
ATOM	817	HA	CYS A	58157.022	-12.400	2.297	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.839	-11.066	1.453	1.00	0.00	H
ATOM	819	2HB	CYS A	58156.063	-10.269	0.471	1.00	0.00	H
ATOM	820	HG	CYS A	58154.908	-12.949	-0.091	1.00	0.00	H
ATOM	821	N	ALAA	59159.202	-11.483	1.594	1.00	0.00	N
ATOM	822	CA	ALAA	59160.516	-10.969	1.228	1.00	0.00	C
ATOM	823	C	ALAA	59160.463	-10.227	-0.103	1.00	0.00	C
ATOM	824	O	ALAA	59159.799	-10.664	-1.042	1.00	0.00	O
ATOM	825	CB	ALAA	59161.527	-12.103	1.163	1.00	0.00	C
ATOM	826	H	ALAA	59159.083	-12.449	1.713	1.00	0.00	H
ATOM	827	HA	ALAA	59160.831	-10.282	2.000	1.00	0.00	H

ATOM	828	1HB	ALA	A	59161.646	-12.421	0.137	1.00	0.00	H
ATOM	829	2HB	ALA	A	59161.176	-12.934	1.758	1.00	0.00	H
ATOM	830	3HB	ALA	A	59162.477	-11.762	1.545	1.00	0.00	H
ATOM	831	N	GLY	A	60161.170	-9.103	-0.175	1.00	0.00	N
ATOM	832	CA	GLY	A	60161.191	-8.318	-1.396	1.00	0.00	C
ATOM	833	C	GLY	A	60160.533	-6.963	-1.226	1.00	0.00	C
ATOM	834	O	GLY	A	60160.888	-6.002	-1.909	1.00	0.00	O
ATOM	835	H	GLY	A	60161.680	-8.804	0.606	1.00	0.00	H
ATOM	836	1HA	GLY	A	60162.216	-8.172	-1.699	1.00	0.00	H
ATOM	837	2HA	GLY	A	60160.671	-8.863	-2.171	1.00	0.00	H
ATOM	838	N	CYS	A	61159.571	-6.885	-0.311	1.00	0.00	N
ATOM	839	CA	CYS	A	61158.862	-5.638	-0.052	1.00	0.00	C
ATOM	840	C	CYS	A	61159.720	-4.685	0.773	1.00	0.00	C
ATOM	841	O	CYS	A	61160.794	-5.054	1.249	1.00	0.00	O
ATOM	842	CB	CYS	A	61157.545	-5.916	0.675	1.00	0.00	C
ATOM	843	SG	CYS	A	61156.398	-6.962	-0.252	1.00	0.00	S
ATOM	844	H	CYS	A	61159.333	-7.686	0.202	1.00	0.00	H
ATOM	845	HA	CYS	A	61158.646	-5.176	-1.004	1.00	0.00	H
ATOM	846	1HB	CYS	A	61157.757	-6.412	1.610	1.00	0.00	H
ATOM	847	2HB	CYS	A	61157.047	-4.979	0.875	1.00	0.00	H
ATOM	848	HG	CYS	A	61156.641	-6.919	-1.180	1.00	0.00	H
ATOM	849	N	THR	A	62159.239	-3.456	0.939	1.00	0.00	N
ATOM	850	CA	THR	A	62159.963	-2.450	1.708	1.00	0.00	C
ATOM	851	C	THR	A	62159.381	-2.315	3.111	1.00	0.00	C
ATOM	852	O	THR	A	62158.425	-3.005	3.466	1.00	0.00	O
ATOM	853	CB	THR	A	62159.916	-1.100	0.991	1.00	0.00	C
ATOM	854	OG1	THR	A	62158.579	-0.739	0.691	1.00	0.00	O
ATOM	855	CG2	THR	A	62160.698	-1.081	-0.304	1.00	0.00	C
ATOM	856	H	THR	A	62158.378	-3.222	0.536	1.00	0.00	H
ATOM	857	HA	THR	A	62160.991	-2.770	1.786	1.00	0.00	H
ATOM	858	HB	THR	A	62160.333	-0.344	1.641	1.00	0.00	H

ATOM	859	HG1 THR A	62158.526	0.211	0.559	1.00	0.00	H
ATOM	860	1HG2 THR A	62161.753	-1.009	-0.086	1.00	0.00	H
ATOM	861	2HG2 THR A	62160.394	-0.231	-0.896	1.00	0.00	H
ATOM	862	3HG2 THR A	62160.506	-1.990	-0.854	1.00	0.00	H
ATOM	863	N ASP A	63159.965	-1.423	3.905	1.00	0.00	N
ATOM	864	CA ASP A	63159.504	-1.198	5.270	1.00	0.00	C
ATOM	865	C ASP A	63158.813	0.156	5.394	1.00	0.00	C
ATOM	866	O ASP A	63158.857	0.791	6.448	1.00	0.00	O
ATOM	867	CB ASP A	63160.679	-1.275	6.246	1.00	0.00	C
ATOM	868	CG ASP A	63161.788	-0.301	5.895	1.00	0.00	C
ATOM	869	OD1 ASP A	63161.497	0.713	5.227	1.00	0.00	O
ATOM	870	OD2 ASP A	63162.946	-0.553	6.289	1.00	0.00	O
ATOM	871	H ASP A	63160.723	-0.904	3.565	1.00	0.00	H
ATOM	872	HA ASP A	63158.795	-1.975	5.513	1.00	0.00	H
ATOM	873	1HB ASP A	63160.328	-1.048	7.242	1.00	0.00	H
ATOM	874	2HB ASP A	63161.086	-2.276	6.232	1.00	0.00	H
ATOM	875	N GLY A	64158.175	0.590	4.313	1.00	0.00	N
ATOM	876	CA GLY A	64157.484	1.866	4.322	1.00	0.00	C
ATOM	877	C GLY A	64158.202	2.922	3.504	1.00	0.00	C
ATOM	878	O GLY A	64158.319	4.072	3.928	1.00	0.00	O
ATOM	879	H GLY A	64158.174	0.041	3.502	1.00	0.00	H
ATOM	880	1HA GLY A	64156.491	1.728	3.919	1.00	0.00	H
ATOM	881	2HA GLY A	64157.400	2.211	5.342	1.00	0.00	H
ATOM	882	N THR A	65158.685	2.531	2.330	1.00	0.00	N
ATOM	883	CA THR A	65159.396	3.451	1.451	1.00	0.00	C
ATOM	884	C THR A	65158.996	3.233	-0.005	1.00	0.00	C
ATOM	885	O THR A	65159.192	2.152	-0.558	1.00	0.00	O
ATOM	886	CB THR A	65160.908	3.273	1.608	1.00	0.00	C
ATOM	887	OG1 THR A	65161.280	1.926	1.381	1.00	0.00	O
ATOM	888	CG2 THR A	65161.417	3.668	2.977	1.00	0.00	C
ATOM	889	H THR A	65158.560	1.600	2.047	1.00	0.00	H



ATOM	890	HA	THR A	65159.129	4.457	1.738	1.00	0.00	H
ATOM	891	HB	THR A	65161.410	3.892	0.877	1.00	0.00	H
ATOM	892	HG1	THR A	65161.430	1.788	0.444	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.950	4.592	3.283	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.488	3.801	2.939	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.177	2.890	3.688	1.00	0.00	H
ATOM	896	N	PHE A	66158.432	4.269	-0.619	1.00	0.00	N
ATOM	897	CA	PHE A	66158.003	4.191	-2.010	1.00	0.00	C
ATOM	898	C	PHE A	66158.983	4.919	-2.924	1.00	0.00	C
ATOM	899	O	PHE A	66159.112	6.141	-2.864	1.00	0.00	O
ATOM	900	CB	PHE A	66156.603	4.786	-2.169	1.00	0.00	C
ATOM	901	CG	PHE A	66155.984	4.516	-3.511	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.770	3.216	-3.941	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.616	5.562	-4.341	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.201	2.966	-5.176	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.047	5.318	-5.577	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.839	4.018	-5.994	1.00	0.00	C
ATOM	907	H	PHE A	66158.302	5.105	-0.125	1.00	0.00	H
ATOM	908	HA	PHE A	66157.975	3.148	-2.291	1.00	0.00	H
ATOM	909	1HB	PHE A	66155.954	4.366	-1.414	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.657	5.856	-2.035	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.053	2.393	-3.302	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.778	6.579	-4.016	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.040	1.948	-5.501	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.765	6.142	-6.214	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.394	3.824	-6.960	1.00	0.00	H
ATOM	916	N	ARG A	67159.672	4.160	-3.769	1.00	0.00	N
ATOM	917	CA	ARG A	67160.642	4.733	-4.696	1.00	0.00	C
ATOM	918	C	ARG A	67161.753	5.458	-3.942	1.00	0.00	C
ATOM	919	O	ARG A	67162.225	6.510	-4.373	1.00	0.00	O
ATOM	920	CB	ARG A	67159.949	5.699	-5.659	1.00	0.00	C

ATOM	921	CG	ARG A	67158.864	5.045	-6.499	1.00	0.00	C
ATOM	922	CD	ARG A	67158.302	6.010	-7.530	1.00	0.00	C
ATOM	923	NE	ARG A	67158.965	5.875	-8.825	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.894	4.783	-9.583	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.193	3.731	-9.182	1.00	0.00	N
ATOM	926	NH2	ARG A	67159.527	4.744	-10.749	1.00	0.00	N
ATOM	927	H	ARG A	67159.526	3.191	-3.770	1.00	0.00	H
ATOM	928	HA	ARG A	67161.078	3.924	-5.262	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.500	6.498	-5.088	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.688	6.117	-6.326	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.283	4.192	-7.011	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.064	4.721	-5.849	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.248	5.810	-7.655	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.436	7.019	-7.171	1.00	0.00	H
ATOM	935	HE	ARG A	67159.490	6.637	-9.146	1.00	0.00	H
ATOM	936	1HH1	ARG A	67157.713	3.753	-8.305	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.144	2.914	-9.756	1.00	0.00	H
ATOM	938	1HH2	ARG A	67160.057	5.534	-11.057	1.00	0.00	H
ATOM	939	2HH2	ARG A	67159.475	3.924	-11.318	1.00	0.00	H
ATOM	940	N	GLY A	68162.165	4.888	-2.814	1.00	0.00	N
ATOM	941	CA	GLY A	68163.216	5.494	-2.018	1.00	0.00	C
ATOM	942	C	GLY A	68162.744	6.731	-1.280	1.00	0.00	C
ATOM	943	O	GLY A	68163.533	7.634	-1.000	1.00	0.00	O
ATOM	944	H	GLY A	68161.751	4.050	-2.521	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.569	4.771	-1.298	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.033	5.766	-2.669	1.00	0.00	H
ATOM	947	N	THR A	69161.454	6.772	-0.962	1.00	0.00	N
ATOM	948	CA	THR A	69160.878	7.907	-0.252	1.00	0.00	C
ATOM	949	C	THR A	69160.006	7.437	0.908	1.00	0.00	C
ATOM	950	O	THR A	69158.823	7.148	0.730	1.00	0.00	O
ATOM	951	CB	THR A	69160.052	8.769	-1.208	1.00	0.00	C

ATOM	952	OG1 THR A	69160.652	8.810	-2.490	1.00	0.00	O
ATOM	953	CG2 THR A	69159.884	10.196	-0.734	1.00	0.00	C
ATOM	954	H THR A	69160.876	6.021	-1.213	1.00	0.00	H
ATOM	955	HA THR A	69161.691	8.500	0.141	1.00	0.00	H
ATOM	956	HB THR A	69159.068	8.335	-1.309	1.00	0.00	H
ATOM	957	HG1 THR A	69161.498	9.260	-2.435	1.00	0.00	H
ATOM	958	1HG2 THR A	69159.331	10.204	0.195	1.00	0.00	H
ATOM	959	2HG2 THR A	69159.343	10.762	-1.479	1.00	0.00	H
ATOM	960	3HG2 THR A	69160.855	10.641	-0.579	1.00	0.00	H
ATOM	961	N ARG A	70160.599	7.363	2.095	1.00	0.00	N
ATOM	962	CA ARG A	70159.876	6.928	3.284	1.00	0.00	C
ATOM	963	C ARG A	70158.715	7.867	3.589	1.00	0.00	C
ATOM	964	O ARG A	70158.835	9.085	3.454	1.00	0.00	O
ATOM	965	CB ARG A	70160.822	6.862	4.485	1.00	0.00	C
ATOM	966	CG ARG A	70160.172	6.303	5.740	1.00	0.00	C
ATOM	967	CD ARG A	70160.941	6.699	6.990	1.00	0.00	C
ATOM	968	NE ARG A	70162.372	6.430	6.859	1.00	0.00	N
ATOM	969	CZ ARG A	70163.254	6.623	7.838	1.00	0.00	C
ATOM	970	NH1 ARG A	70162.857	7.084	9.017	1.00	0.00	N
ATOM	971	NH2 ARG A	70164.536	6.353	7.637	1.00	0.00	N
ATOM	972	H ARG A	70161.545	7.608	2.172	1.00	0.00	H
ATOM	973	HA ARG A	70159.484	5.941	3.091	1.00	0.00	H
ATOM	974	1HB ARG A	70161.664	6.235	4.231	1.00	0.00	H
ATOM	975	2HB ARG A	70161.179	7.857	4.703	1.00	0.00	H
ATOM	976	1HG ARG A	70159.165	6.686	5.813	1.00	0.00	H
ATOM	977	2HG ARG A	70160.145	5.225	5.671	1.00	0.00	H
ATOM	978	1HD ARG A	70160.798	7.754	7.166	1.00	0.00	H
ATOM	979	2HD ARG A	70160.554	6.138	7.828	1.00	0.00	H
ATOM	980	HE ARG A	70162.692	6.088	5.999	1.00	0.00	H
ATOM	981	1HH1 ARG A	70161.891	7.290	9.177	1.00	0.00	H
ATOM	982	2HH1 ARG A	70163.524	7.227	9.748	1.00	0.00	H

ATOM	983	1HH2	ARG A	70164.840	6.005	6.750	1.00	0.00	H
ATOM	984	2HH2	ARG A	70165.199	6.497	8.370	1.00	0.00	H
ATOM	985	N	TYR A	71157.589	7.295	4.002	1.00	0.00	N
ATOM	986	CA	TYR A	71156.404	8.081	4.326	1.00	0.00	C
ATOM	987	C	TYR A	71155.921	7.778	5.741	1.00	0.00	C
ATOM	988	O	TYR A	71155.586	8.687	6.501	1.00	0.00	O
ATOM	989	CB	TYR A	71155.286	7.795	3.322	1.00	0.00	C
ATOM	990	CG	TYR A	71155.489	8.465	1.982	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.380	7.745	0.799	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.793	9.819	1.900	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.565	8.354	-0.427	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.980	10.435	0.677	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.865	9.698	-0.483	1.00	0.00	C
ATOM	996	OH	TYR A	71156.051	10.308	-1.702	1.00	0.00	O
ATOM	997	H	TYR A	71157.554	6.319	4.091	1.00	0.00	H
ATOM	998	HA	TYR A	71156.672	9.125	4.266	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.226	6.730	3.154	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.349	8.144	3.729	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.144	6.692	0.846	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.882	10.393	2.810	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.475	7.777	-1.335	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.215	11.488	0.635	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.907	10.059	-2.058	1.00	0.00	H
ATOM	1006	N	PHE A	72155.889	6.496	6.088	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.447	6.073	7.412	1.00	0.00	C
ATOM	1008	C	PHE A	72156.408	5.047	8.004	1.00	0.00	C
ATOM	1009	O	PHE A	72157.303	4.553	7.320	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.037	5.485	7.338	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.868	4.464	6.249	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.748	4.858	4.926	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.831	3.112	6.548	1.00	0.00	C

ATOM	1014	CE1	PHE A	72153.593	3.921	3.921	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.677	2.171	5.548	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.558	2.576	4.234	1.00	0.00	C
ATOM	1017	H	PHE A	72156.168	5.817	5.438	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.431	6.944	8.049	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.803	5.009	8.278	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.331	6.283	7.159	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.776	5.909	4.680	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.925	2.795	7.576	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.499	4.240	2.894	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.649	1.120	5.795	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.436	1.841	3.450	1.00	0.00	H
ATOM	1026	N	THR A	73156.216	4.732	9.281	1.00	0.00	N
ATOM	1027	CA	THR A	73157.064	3.765	9.966	1.00	0.00	C
ATOM	1028	C	THR A	73156.309	2.466	10.227	1.00	0.00	C
ATOM	1029	O	THR A	73155.430	2.409	11.086	1.00	0.00	O
ATOM	1030	CB	THR A	73157.573	4.346	11.286	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.559	5.762	11.249	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.981	3.910	11.630	1.00	0.00	C
ATOM	1033	H	THR A	73155.485	5.160	9.774	1.00	0.00	H
ATOM	1034	HA	THR A	73157.909	3.554	9.327	1.00	0.00	H
ATOM	1035	HB	THR A	73156.922	4.021	12.085	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.401	6.105	12.132	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.622	4.056	10.773	1.00	0.00	H
ATOM	1038	2HG2	THR A	73158.978	2.865	11.903	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.348	4.498	12.457	1.00	0.00	H
ATOM	1040	N	CYS A	74156.658	1.424	9.478	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.013	0.125	9.628	1.00	0.00	C
ATOM	1042	C	CYS A	74157.050	-0.992	9.703	1.00	0.00	C
ATOM	1043	O	CYS A	74158.254	-0.735	9.695	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.055	-0.130	8.464	1.00	0.00	C

ATOM	1045	SG	CYS A	74153.368	0.453	8.755	1.00	0.00	S
ATOM	1046	H	CYS A	74157.366	1.531	8.810	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.450	0.139	10.550	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.428	0.373	7.584	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.008	-1.192	8.272	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.059	0.879	7.951	1.00	0.00	H
ATOM	1051	N	ALA A	75156.573	-2.230	9.775	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.459	-3.386	9.850	1.00	0.00	C
ATOM	1053	C	ALA A	75158.186	-3.607	8.528	1.00	0.00	C
ATOM	1054	O	ALA A	75157.865	-2.980	7.520	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.671	-4.629	10.237	1.00	0.00	C
ATOM	1056	H	ALA A	75155.604	-2.370	9.777	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.189	-3.196	10.623	1.00	0.00	H
ATOM	1058	1HB	ALA A	75155.655	-4.535	9.885	1.00	0.00	H
ATOM	1059	2HB	ALA A	75156.672	-4.736	11.311	1.00	0.00	H
ATOM	1060	3HB	ALA A	75157.129	-5.498	9.787	1.00	0.00	H
ATOM	1061	N	LEU A	76159.167	-4.503	8.542	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.941	-4.808	7.343	1.00	0.00	C
ATOM	1063	C	LEU A	76159.236	-5.858	6.492	1.00	0.00	C
ATOM	1064	O	LEU A	76158.624	-6.787	7.019	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.340	-5.296	7.724	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.346	-4.192	8.050	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.333	-4.663	9.106	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.078	-3.752	6.792	1.00	0.00	C
ATOM	1069	H	LEU A	76159.377	-4.970	9.377	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.032	-3.898	6.768	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.250	-5.940	8.588	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.731	-5.878	6.903	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.816	-3.337	8.447	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.489	-5.726	9.004	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.938	-4.450	10.089	1.00	0.00	H

ATOM	1076	3HD1	LEU A	76164.273	-4.147	8.976	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.303	-2.697	6.855	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.455	-3.935	5.930	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.998	-4.310	6.696	1.00	0.00	H
ATOM	1080	N	LYS A	77159.327	-5.706	5.175	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.698	-6.642	4.250	1.00	0.00	C
ATOM	1082	C	LYS A	77157.182	-6.642	4.423	1.00	0.00	C
ATOM	1083	O	LYS A	77156.538	-7.688	4.339	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.248	-8.053	4.466	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.765	-8.109	4.551	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.413	-7.639	3.259	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.826	-7.132	3.496	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.834	-5.847	4.248	1.00	0.00	N
ATOM	1089	H	LYS A	77159.830	-4.943	4.816	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.934	-6.323	3.246	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.843	-8.448	5.386	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.932	-8.680	3.646	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.094	-7.472	5.358	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.068	-9.127	4.748	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.452	-8.467	2.566	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.818	-6.842	2.838	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.371	-7.872	4.061	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.307	-6.984	2.540	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77161.959	-5.750	4.801	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.903	-5.046	3.588	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.648	-5.817	4.897	1.00	0.00	H
ATOM	1102	N	LYS A	78156.620	-5.463	4.664	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.179	-5.326	4.848	1.00	0.00	C
ATOM	1104	C	LYS A	78154.704	-3.943	4.414	1.00	0.00	C
ATOM	1105	O	LYS A	78153.844	-3.341	5.056	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.805	-5.573	6.310	1.00	0.00	C

ATOM	1107	CG	LYS A	78155.324	-6.893	6.858	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.929	-7.085	8.313	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.688	-7.957	8.445	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.655	-7.323	9.310	1.00	0.00	N
ATOM	1111	H	LYS A	78157.186	-4.665	4.720	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.695	-6.070	4.232	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.211	-4.774	6.913	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.729	-5.569	6.400	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.912	-7.701	6.272	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.401	-6.904	6.782	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.745	-7.558	8.838	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.728	-6.119	8.752	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.272	-8.121	7.463	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.975	-8.905	8.877	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.069	-7.058	10.226	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78151.870	-7.986	9.474	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.279	-6.468	8.850	1.00	0.00	H
ATOM	1124	N	ALAA	79155.270	-3.445	3.320	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.904	-2.132	2.800	1.00	0.00	C
ATOM	1126	C	ALAA	79154.645	-2.189	1.298	1.00	0.00	C
ATOM	1127	O	ALAA	79155.565	-2.390	0.506	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.996	-1.120	3.111	1.00	0.00	C
ATOM	1129	H	ALAA	79155.950	-3.972	2.850	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.999	-1.816	3.300	1.00	0.00	H
ATOM	1131	1HB	ALAA	79156.440	-1.352	4.068	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.568	-0.129	3.145	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.752	-1.159	2.342	1.00	0.00	H
ATOM	1134	N	LEUA	80153.385	-2.009	0.914	1.00	0.00	N
ATOM	1135	CA	LEUA	80153.003	-2.039	-0.493	1.00	0.00	C
ATOM	1136	C	LEUA	80152.162	-0.819	-0.854	1.00	0.00	C
ATOM	1137	O	LEUA	80151.115	-0.574	-0.254	1.00	0.00	O



ATOM 1138 CB LEU A 80152.226 -3.319 -0.804 1.00 0.00 C  
 ATOM 1139 CG LEU A 80151.701 -3.427 -2.237 1.00 0.00 C  
 ATOM 1140 CD1 LEU A 80152.848 -3.637 -3.212 1.00 0.00 C  
 ATOM 1141 CD2 LEU A 80150.689 -4.557 -2.349 1.00 0.00 C  
 ATOM 1142 H LEU A 80152.695 -1.853 1.592 1.00 0.00 H  
 ATOM 1143 HA LEU A 80153.908 -2.025 -1.082 1.00 0.00 H  
 ATOM 1144 1HB LEU A 80152.874 -4.163 -0.616 1.00 0.00 H  
 ATOM 1145 2HB LEU A 80151.384 -3.378 -0.131 1.00 0.00 H  
 ATOM 1146 HG LEU A 80151.204 -2.504 -2.500 1.00 0.00 H  
 ATOM 1147 1HD1 LEU A 80153.181 -4.664 -3.160 1.00 0.00 H  
 ATOM 1148 2HD1 LEU A 80153.665 -2.980 -2.954 1.00 0.00 H  
 ATOM 1149 3HD1 LEU A 80152.513 -3.419 -4.216 1.00 0.00 H  
 ATOM 1150 1HD2 LEU A 80149.784 -4.284 -1.827 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80151.100 -5.454 -1.910 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80150.464 -4.736 -3.390 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.628 -0.055 -1.837 1.00 0.00 N  
 ATOM 1154 CA PHE A 81151.917 1.141 -2.278 1.00 0.00 C  
 ATOM 1155 C PHE A 81151.046 0.840 -3.493 1.00 0.00 C  
 ATOM 1156 O PHE A 81151.391 0.000 -4.323 1.00 0.00 O  
 ATOM 1157 CB PHE A 81152.911 2.255 -2.612 1.00 0.00 C  
 ATOM 1158 CG PHE A 81153.620 2.808 -1.408 1.00 0.00 C  
 ATOM 1159 CD1 PHE A 81154.678 2.121 -0.835 1.00 0.00 C  
 ATOM 1160 CD2 PHE A 81153.227 4.014 -0.849 1.00 0.00 C  
 ATOM 1161 CE1 PHE A 81155.333 2.628 0.272 1.00 0.00 C  
 ATOM 1162 CE2 PHE A 81153.877 4.525 0.257 1.00 0.00 C  
 ATOM 1163 CZ PHE A 81154.931 3.831 0.819 1.00 0.00 C  
 ATOM 1164 H PHE A 81153.468 -0.301 -2.277 1.00 0.00 H  
 ATOM 1165 HA PHE A 81151.284 1.467 -1.467 1.00 0.00 H  
 ATOM 1166 1HB PHE A 81153.659 1.870 -3.289 1.00 0.00 H  
 ATOM 1167 2HB PHE A 81152.383 3.067 -3.091 1.00 0.00 H  
 ATOM 1168 HD1 PHE A 81154.993 1.182 -1.263 1.00 0.00 H

ATOM	1169	HD2 PHE A	81152.403	4.557	-1.289	1.00	0.00	H
ATOM	1170	HE1 PHE A	81156.156	2.083	0.709	1.00	0.00	H
ATOM	1171	HE2 PHE A	81153.562	5.466	0.683	1.00	0.00	H
ATOM	1172	HZ PHE A	81155.441	4.229	1.684	1.00	0.00	H
ATOM	1173	N VAL A	82149.916	1.532	-3.589	1.00	0.00	N
ATOM	1174	CA VAL A	82148.995	1.338	-4.703	1.00	0.00	C
ATOM	1175	C VAL A	82148.135	2.578	-4.926	1.00	0.00	C
ATOM	1176	O VAL A	82148.064	3.458	-4.069	1.00	0.00	O
ATOM	1177	CB VAL A	82148.075	0.126	-4.469	1.00	0.00	C
ATOM	1178	CG1 VAL A	82148.849	-1.173	-4.634	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.433	0.201	-3.092	1.00	0.00	C
ATOM	1180	H VAL A	82149.695	2.187	-2.895	1.00	0.00	H
ATOM	1181	HA VAL A	82149.581	1.153	-5.592	1.00	0.00	H
ATOM	1182	HB VAL A	82147.290	0.146	-5.210	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82148.168	-2.008	-4.578	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82149.586	-1.256	-3.849	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82149.345	-1.176	-5.594	1.00	0.00	H
ATOM	1186	1HG2 VAL A	82147.004	-0.759	-2.842	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82146.658	0.951	-3.096	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82148.183	0.461	-2.359	1.00	0.00	H
ATOM	1189	N LYS A	83147.485	2.641	-6.083	1.00	0.00	N
ATOM	1190	CA LYS A	83146.629	3.772	-6.419	1.00	0.00	C
ATOM	1191	C LYS A	83145.383	3.794	-5.543	1.00	0.00	C
ATOM	1192	O LYS A	83144.618	2.829	-5.507	1.00	0.00	O
ATOM	1193	CB LYS A	83146.229	3.716	-7.894	1.00	0.00	C
ATOM	1194	CG LYS A	83147.387	3.960	-8.849	1.00	0.00	C
ATOM	1195	CD LYS A	83146.976	3.731	-10.293	1.00	0.00	C
ATOM	1196	CE LYS A	83147.609	4.754	-11.223	1.00	0.00	C
ATOM	1197	NZ LYS A	83148.043	4.144	-12.510	1.00	0.00	N
ATOM	1198	H LYS A	83147.582	1.908	-6.726	1.00	0.00	H
ATOM	1199	HA LYS A	83147.192	4.677	-6.243	1.00	0.00	H

ATOM	1200	1HB	LYS A	83145.816	2.741	-8.106	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.474	4.465	-8.079	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.723	4.980	-8.738	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.193	3.285	-8.600	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.291	2.743	-10.595	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.901	3.806	-10.369	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.887	5.530	-11.428	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.468	5.185	-10.730	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.884	4.810	-13.292	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.502	3.275	-12.694	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.055	3.907	-12.470	1.00	0.00	H
ATOM	1211	N	LEU A	84145.185	4.902	-4.837	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.032	5.055	-3.958	1.00	0.00	C
ATOM	1213	C	LEU A	84142.731	4.965	-4.749	1.00	0.00	C
ATOM	1214	O	LEU A	84141.738	4.418	-4.270	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.106	6.394	-3.222	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.898	6.721	-2.344	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.905	5.865	-1.087	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.884	8.199	-1.986	1.00	0.00	C
ATOM	1219	H	LEU A	84145.831	5.635	-4.909	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.056	4.255	-3.236	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.988	6.390	-2.599	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.212	7.178	-3.958	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.993	6.500	-2.892	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.442	4.913	-1.296	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84142.357	6.370	-0.305	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.925	5.706	-0.766	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.845	8.481	-1.581	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.115	8.384	-1.249	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.682	8.783	-2.872	1.00	0.00	H
ATOM	1230	N	LYS A	85142.744	5.505	-5.963	1.00	0.00	N

ATOM	1231	CA	LYS A	85141.565	5.484	-6.822	1.00	0.00	C
ATOM	1232	C	LYS A	85141.184	4.054	-7.191	1.00	0.00	C
ATOM	1233	O	LYS A	85140.025	3.767	-7.489	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.818	6.301	-8.091	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.122	5.950	-8.790	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.216	6.955	-8.467	1.00	0.00	C
ATOM	1237	CE	LYS A	85145.058	7.276	-9.693	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.401	8.286	-10.568	1.00	0.00	N
ATOM	1239	H	LYS A	85143.566	5.926	-6.291	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.750	5.931	-6.274	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.006	6.129	-8.783	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.844	7.349	-7.832	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.441	4.971	-8.468	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.956	5.943	-9.858	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.762	7.866	-8.107	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.856	6.543	-7.701	1.00	0.00	H
ATOM	1247	1HE	LYS A	85146.012	7.662	-9.366	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.211	6.367	-10.256	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.439	7.976	-10.812	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.947	8.408	-11.445	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.347	9.202	-10.078	1.00	0.00	H
ATOM	1252	N	SER A	86142.166	3.157	-7.170	1.00	0.00	N
ATOM	1253	CA	SER A	86141.931	1.758	-7.502	1.00	0.00	C
ATOM	1254	C	SER A	86141.941	0.892	-6.246	1.00	0.00	C
ATOM	1255	O	SER A	86142.372	-0.260	-6.278	1.00	0.00	O
ATOM	1256	CB	SER A	86142.990	1.260	-8.487	1.00	0.00	C
ATOM	1257	OG	SER A	86143.426	2.305	-9.340	1.00	0.00	O
ATOM	1258	H	SER A	86143.072	3.444	-6.925	1.00	0.00	H
ATOM	1259	HA	SER A	86140.959	1.686	-7.966	1.00	0.00	H
ATOM	1260	1HB	SER A	86143.840	0.883	-7.938	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.572	0.469	-9.092	1.00	0.00	H

ATOM	1262	HG	SER A	86144.097	1.971	-9.940	1.00	0.00	H
ATOM	1263	N	CYS A	87141.463	1.457	-5.142	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.416	0.736	-3.874	1.00	0.00	C
ATOM	1265	C	CYS A	87139.976	0.507	-3.430	1.00	0.00	C
ATOM	1266	O	CYS A	87139.114	1.366	-3.614	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.176	1.512	-2.796	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.976	1.402	-2.937	1.00	0.00	S
ATOM	1269	H	CYS A	87141.134	2.378	-5.180	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.893	-0.221	-4.019	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.907	2.556	-2.857	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.898	1.130	-1.825	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.247	0.545	-2.597	1.00	0.00	H
ATOM	1274	N	ARG A	88139.723	-0.658	-2.843	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.386	-1.003	-2.371	1.00	0.00	C
ATOM	1276	C	ARG A	88138.324	-0.963	-0.845	1.00	0.00	C
ATOM	1277	O	ARG A	88139.294	-1.303	-0.169	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.987	-2.392	-2.876	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.161	-2.359	-4.153	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.687	-2.609	-3.873	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.830	-1.636	-4.546	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.636	-1.603	-5.863	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.235	-2.487	-6.651	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.840	-0.685	-6.393	1.00	0.00	N
ATOM	1285	H	ARG A	88140.451	-1.302	-2.725	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.697	-0.273	-2.768	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.883	-2.964	-3.067	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.409	-2.889	-2.111	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.270	-1.390	-4.616	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.525	-3.124	-4.824	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.431	-3.599	-4.220	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.519	-2.547	-2.809	1.00	0.00	H

ATOM 1293 HE ARG A 88134.375 -0.971 -3.987 1.00 0.00 H  
 ATOM 1294 1HH1 ARG A 88135.837 -3.182 -6.258 1.00 0.00 H  
 ATOM 1295 2HH1 ARG A 88135.086 -2.458 -7.639 1.00 0.00 H  
 ATOM 1296 1HH2 ARG A 88133.385 -0.017 -5.803 1.00 0.00 H  
 ATOM 1297 2HH2 ARG A 88133.693 -0.661 -7.382 1.00 0.00 H  
 ATOM 1298 N PRO A 89137.177 -0.547 -0.281 1.00 0.00 N  
 ATOM 1299 CA PRO A 89136.999 -0.468 1.169 1.00 0.00 C  
 ATOM 1300 C PRO A 89136.896 -1.846 1.815 1.00 0.00 C  
 ATOM 1301 O PRO A 89135.910 -2.558 1.627 1.00 0.00 O  
 ATOM 1302 CB PRO A 89135.687 0.298 1.331 1.00 0.00 C  
 ATOM 1303 CG PRO A 89134.940 0.078 0.064 1.00 0.00 C  
 ATOM 1304 CD PRO A 89135.968 -0.126 -1.013 1.00 0.00 C  
 ATOM 1305 HA PRO A 89137.802 0.085 1.634 1.00 0.00 H  
 ATOM 1306 1HB PRO A 89135.144 -0.098 2.172 1.00 0.00 H  
 ATOM 1307 2HB PRO A 89135.894 1.346 1.490 1.00 0.00 H  
 ATOM 1308 1HG PRO A 89134.317 -0.798 0.154 1.00 0.00 H  
 ATOM 1309 2HG PRO A 89134.335 0.946 -0.159 1.00 0.00 H  
 ATOM 1310 1HD PRO A 89135.645 -0.899 -1.687 1.00 0.00 H  
 ATOM 1311 2HD PRO A 89136.144 0.795 -1.548 1.00 0.00 H  
 ATOM 1312 N ASP A 90137.923 -2.215 2.574 1.00 0.00 N  
 ATOM 1313 CA ASP A 90137.949 -3.506 3.249 1.00 0.00 C  
 ATOM 1314 C ASP A 90136.957 -3.538 4.406 1.00 0.00 C  
 ATOM 1315 O ASP A 90136.914 -2.621 5.226 1.00 0.00 O  
 ATOM 1316 CB ASP A 90139.359 -3.807 3.763 1.00 0.00 C  
 ATOM 1317 CG ASP A 90139.628 -5.294 3.883 1.00 0.00 C  
 ATOM 1318 OD1 ASP A 90140.606 -5.667 4.563 1.00 0.00 O  
 ATOM 1319 OD2 ASP A 90138.859 -6.086 3.298 1.00 0.00 O  
 ATOM 1320 H ASP A 90138.680 -1.602 2.684 1.00 0.00 H  
 ATOM 1321 HA ASP A 90137.671 -4.262 2.530 1.00 0.00 H  
 ATOM 1322 1HB ASP A 90140.082 -3.384 3.081 1.00 0.00 H  
 ATOM 1323 2HB ASP A 90139.484 -3.357 4.737 1.00 0.00 H

ATOM	1324	N	SER A	91136.160	-4.600	4.465	1.00	0.00	N
ATOM	1325	CA	SER A	91135.168	-4.753	5.523	1.00	0.00	C
ATOM	1326	C	SER A	91135.540	-5.899	6.458	1.00	0.00	C
ATOM	1327	O	SER A	91134.669	-6.551	7.033	1.00	0.00	O
ATOM	1328	CB	SER A	91133.784	-5.001	4.920	1.00	0.00	C
ATOM	1329	OG	SER A	91132.762	-4.490	5.758	1.00	0.00	O
ATOM	1330	H	SER A	91136.242	-5.298	3.783	1.00	0.00	H
ATOM	1331	HA	SER A	91135.144	-3.834	6.090	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.720	-4.513	3.958	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.634	-6.063	4.796	1.00	0.00	H
ATOM	1334	HG	SER A	91132.352	-5.213	6.239	1.00	0.00	H
ATOM	1335	N	ARG A	92136.839	-6.140	6.603	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.327	-7.208	7.467	1.00	0.00	C
ATOM	1337	C	ARG A	92136.932	-6.957	8.918	1.00	0.00	C
ATOM	1338	O	ARG A	92136.465	-7.862	9.610	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.848	-7.331	7.353	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.304	-8.143	6.151	1.00	0.00	C
ATOM	1341	CD	ARG A	92140.560	-8.939	6.463	1.00	0.00	C
ATOM	1342	NE	ARG A	92140.258	-10.191	7.152	1.00	0.00	N
ATOM	1343	CZ	ARG A	92141.185	-10.991	7.674	1.00	0.00	C
ATOM	1344	NH1	ARG A	92142.471	-10.675	7.587	1.00	0.00	N
ATOM	1345	NH2	ARG A	92140.824	-12.112	8.285	1.00	0.00	N
ATOM	1346	H	ARG A	92137.486	-5.586	6.117	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.874	-8.132	7.138	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.272	-6.341	7.273	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.226	-7.805	8.246	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.517	-8.827	5.871	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.508	-7.469	5.331	1.00	0.00	H
ATOM	1352	1HD	ARG A	92141.067	-9.163	5.536	1.00	0.00	H
ATOM	1353	2HD	ARG A	92141.205	-8.340	7.089	1.00	0.00	H
ATOM	1354	HE	ARG A	92139.316	-10.448	7.230	1.00	0.00	H

ATOM 1355 1HH1 ARG A 92142.750 -9.832 7.128 1.00 0.00 H  
 ATOM 1356 2HH1 ARG A 92143.162 -11.281 7.981 1.00 0.00 H  
 ATOM 1357 1HH2 ARG A 92139.856 -12.355 8.354 1.00 0.00 H  
 ATOM 1358 2HH2 ARG A 92141.520 -12.714 8.678 1.00 0.00 H  
 ATOM 1359 N PHE A 93137.123 -5.724 9.374 1.00 0.00 N  
 ATOM 1360 CA PHE A 93136.787 -5.354 10.744 1.00 0.00 C  
 ATOM 1361 C PHE A 93135.505 -4.527 10.791 1.00 0.00 C  
 ATOM 1362 O PHE A 93135.283 -3.763 11.731 1.00 0.00 O  
 ATOM 1363 CB PHE A 93137.936 -4.569 11.379 1.00 0.00 C  
 ATOM 1364 CG PHE A 93139.158 -5.402 11.646 1.00 0.00 C  
 ATOM 1365 CD1 PHE A 93139.645 -5.547 12.934 1.00 0.00 C  
 ATOM 1366 CD2 PHE A 93139.819 -6.038 10.607 1.00 0.00 C  
 ATOM 1367 CE1 PHE A 93140.769 -6.312 13.183 1.00 0.00 C  
 ATOM 1368 CE2 PHE A 93140.943 -6.805 10.849 1.00 0.00 C  
 ATOM 1369 CZ PHE A 93141.418 -6.941 12.139 1.00 0.00 C  
 ATOM 1370 H PHE A 93137.499 -5.046 8.774 1.00 0.00 H  
 ATOM 1371 HA PHE A 93136.634 -6.265 11.304 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93138.221 -3.765 10.717 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93137.604 -4.154 12.319 1.00 0.00 H  
 ATOM 1374 HD1 PHE A 93139.138 -5.056 13.751 1.00 0.00 H  
 ATOM 1375 HD2 PHE A 93139.448 -5.932 9.599 1.00 0.00 H  
 ATOM 1376 HE1 PHE A 93141.139 -6.417 14.193 1.00 0.00 H  
 ATOM 1377 HE2 PHE A 93141.449 -7.297 10.032 1.00 0.00 H  
 ATOM 1378 HZ PHE A 93142.297 -7.539 12.332 1.00 0.00 H  
 ATOM 1379 N ALA A 94134.664 -4.683 9.773 1.00 0.00 N  
 ATOM 1380 CA ALA A 94133.406 -3.949 9.703 1.00 0.00 C  
 ATOM 1381 C ALA A 94132.231 -4.835 10.103 1.00 0.00 C  
 ATOM 1382 O ALA A 94132.011 -5.894 9.515 1.00 0.00 O  
 ATOM 1383 CB ALA A 94133.200 -3.391 8.302 1.00 0.00 C  
 ATOM 1384 H ALA A 94134.893 -5.307 9.052 1.00 0.00 H  
 ATOM 1385 HA ALA A 94133.468 -3.118 10.391 1.00 0.00 H



ATOM 1386 1HB ALA A 94133.860 -3.896 7.613 1.00 0.00 H  
 ATOM 1387 2HB ALA A 94133.420 -2.333 8.301 1.00 0.00 H  
 ATOM 1388 3HB ALA A 94132.175 -3.545 7.999 1.00 0.00 H  
 ATOM 1389 N SER A 95131.480 -4.395 11.106 1.00 0.00 N  
 ATOM 1390 CA SER A 95130.327 -5.148 11.585 1.00 0.00 C  
 ATOM 1391 C SER A 95129.146 -4.997 10.631 1.00 0.00 C  
 ATOM 1392 O SER A 95129.018 -3.986 9.941 1.00 0.00 O  
 ATOM 1393 CB SER A 95129.930 -4.679 12.986 1.00 0.00 C  
 ATOM 1394 OG SER A 95130.871 -5.109 13.953 1.00 0.00 O  
 ATOM 1395 H SER A 95131.706 -3.544 11.536 1.00 0.00 H  
 ATOM 1396 HA SER A 95130.607 -6.191 11.629 1.00 0.00 H  
 ATOM 1397 1HB SER A 95129.883 -3.600 13.002 1.00 0.00 H  
 ATOM 1398 2HB SER A 95128.961 -5.085 13.238 1.00 0.00 H  
 ATOM 1399 HG SER A 95131.760 -4.956 13.626 1.00 0.00 H  
 ATOM 1400 N LEU A 96128.285 -6.009 10.599 1.00 0.00 N  
 ATOM 1401 CA LEU A 96127.113 -5.988 9.731 1.00 0.00 C  
 ATOM 1402 C LEU A 96125.874 -5.541 10.499 1.00 0.00 C  
 ATOM 1403 O LEU A 96124.778 -6.061 10.288 1.00 0.00 O  
 ATOM 1404 CB LEU A 96126.879 -7.371 9.121 1.00 0.00 C  
 ATOM 1405 CG LEU A 96126.293 -7.366 7.708 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96126.771 -8.580 6.928 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96124.773 -7.329 7.763 1.00 0.00 C  
 ATOM 1408 H LEU A 96128.439 -6.788 11.173 1.00 0.00 H  
 ATOM 1409 HA LEU A 96127.303 -5.282 8.936 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96127.825 -7.895 9.095 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96126.203 -7.915 9.764 1.00 0.00 H  
 ATOM 1412 HG LEU A 96126.632 -6.481 7.189 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96126.084 -9.400 7.081 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96127.754 -8.865 7.272 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96126.814 -8.338 5.876 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96124.443 -6.314 7.924 1.00 0.00 H

ATOM	1417	2HD2	LEU A	96124.427	-7.954	8.575	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96124.371	-7.695	6.831	1.00	0.00	H
ATOM	1419	N	GLN A	97126.055	-4.571	11.390	1.00	0.00	N
ATOM	1420	CA	GLN A	97124.950	-4.053	12.189	1.00	0.00	C
ATOM	1421	C	GLN A	97125.030	-2.532	12.306	1.00	0.00	C
ATOM	1422	O	GLN A	97125.704	-2.005	13.192	1.00	0.00	O
ATOM	1423	CB	GLN A	97124.963	-4.683	13.583	1.00	0.00	C
ATOM	1424	CG	GLN A	97124.766	-6.190	13.571	1.00	0.00	C
ATOM	1425	CD	GLN A	97125.082	-6.830	14.909	1.00	0.00	C
ATOM	1426	OE1	GLN A	97124.623	-6.370	15.954	1.00	0.00	O
ATOM	1427	NE2	GLN A	97125.870	-7.898	14.882	1.00	0.00	N
ATOM	1428	H	GLN A	97126.952	-4.196	11.513	1.00	0.00	H
ATOM	1429	HA	GLN A	97124.029	-4.318	11.695	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.913	-4.470	14.054	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.173	-4.242	14.172	1.00	0.00	H
ATOM	1432	1HG	GLN A	97123.736	-6.403	13.322	1.00	0.00	H
ATOM	1433	2HG	GLN A	97125.414	-6.620	12.821	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97126.200	-8.209	14.013	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97126.091	-8.332	15.732	1.00	0.00	H
ATOM	1436	N	PRO A	98124.340	-1.804	11.411	1.00	0.00	N
ATOM	1437	CA	PRO A	98124.338	-0.339	11.421	1.00	0.00	C
ATOM	1438	C	PRO A	98123.503	0.233	12.562	1.00	0.00	C
ATOM	1439	O	PRO A	98122.523	-0.378	12.993	1.00	0.00	O
ATOM	1440	CB	PRO A	98123.717	0.020	10.071	1.00	0.00	C
ATOM	1441	CG	PRO A	98122.837	-1.136	9.742	1.00	0.00	C
ATOM	1442	CD	PRO A	98123.510	-2.352	10.321	1.00	0.00	C
ATOM	1443	HA	PRO A	98125.341	0.058	11.477	1.00	0.00	H
ATOM	1444	1HB	PRO A	98123.151	0.936	10.164	1.00	0.00	H
ATOM	1445	2HB	PRO A	98124.495	0.145	9.334	1.00	0.00	H
ATOM	1446	1HG	PRO A	98121.864	-0.996	10.192	1.00	0.00	H
ATOM	1447	2HG	PRO A	98122.744	-1.234	8.671	1.00	0.00	H

ATOM 1448 1HD PRO A 98122.773 -3.041 10.708 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98124.123 -2.834 9.576 1.00 0.00 H  
 ATOM 1450 N SER A 99123.896 1.405 13.048 1.00 0.00 N  
 ATOM 1451 CA SER A 99123.183 2.058 14.139 1.00 0.00 C  
 ATOM 1452 C SER A 99121.936 2.769 13.625 1.00 0.00 C  
 ATOM 1453 O SER A 99121.949 3.978 13.392 1.00 0.00 O  
 ATOM 1454 CB SER A 99124.099 3.058 14.847 1.00 0.00 C  
 ATOM 1455 OG SER A 99123.376 3.838 15.784 1.00 0.00 O  
 ATOM 1456 H SER A 99124.685 1.842 12.662 1.00 0.00 H  
 ATOM 1457 HA SER A 99122.885 1.297 14.843 1.00 0.00 H  
 ATOM 1458 1HB SER A 99124.878 2.522 15.369 1.00 0.00 H  
 ATOM 1459 2HB SER A 99124.543 3.717 14.115 1.00 0.00 H  
 ATOM 1460 HG SER A 99123.687 4.746 15.754 1.00 0.00 H  
 ATOM 1461 N GLY A 100120.858 2.011 13.452 1.00 0.00 N  
 ATOM 1462 CA GLY A 100119.617 2.585 12.966 1.00 0.00 C  
 ATOM 1463 C GLY A 100118.641 2.890 14.088 1.00 0.00 C  
 ATOM 1464 O GLY A 100118.712 2.283 15.156 1.00 0.00 O  
 ATOM 1465 H GLY A 100120.906 1.053 13.654 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100119.839 3.500 12.438 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100119.154 1.890 12.281 1.00 0.00 H  
 ATOM 1468 N PRO A 101117.710 3.837 13.874 1.00 0.00 N  
 ATOM 1469 CA PRO A 101116.718 4.211 14.886 1.00 0.00 C  
 ATOM 1470 C PRO A 101115.686 3.114 15.120 1.00 0.00 C  
 ATOM 1471 O PRO A 101115.170 2.959 16.227 1.00 0.00 O  
 ATOM 1472 CB PRO A 101116.052 5.453 14.289 1.00 0.00 C  
 ATOM 1473 CG PRO A 101116.233 5.309 12.818 1.00 0.00 C  
 ATOM 1474 CD PRO A 101117.552 4.612 12.629 1.00 0.00 C  
 ATOM 1475 HA PRO A 101117.188 4.468 15.824 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101115.006 5.468 14.559 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101116.539 6.341 14.661 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101115.431 4.713 12.405 1.00 0.00 H

ATOM 1479 2HG PRO A 101116.254 6.283 12.353 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101117.515 3.959 11.769 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101118.349 5.334 12.521 1.00 0.00 H  
 ATOM 1482 N SER A 102115.391 2.353 14.071 1.00 0.00 N  
 ATOM 1483 CA SER A 102114.422 1.268 14.162 1.00 0.00 C  
 ATOM 1484 C SER A 102115.026 -0.046 13.678 1.00 0.00 C  
 ATOM 1485 O SER A 102115.981 -0.051 12.900 1.00 0.00 O  
 ATOM 1486 CB SER A 102113.174 1.602 13.342 1.00 0.00 C  
 ATOM 1487 OG SER A 102113.518 1.991 12.024 1.00 0.00 O  
 ATOM 1488 H SER A 102115.837 2.524 13.215 1.00 0.00 H  
 ATOM 1489 HA SER A 102114.140 1.160 15.200 1.00 0.00 H  
 ATOM 1490 1HB SER A 102112.535 0.731 13.291 1.00 0.00 H  
 ATOM 1491 2HB SER A 102112.640 2.412 13.817 1.00 0.00 H  
 ATOM 1492 HG SER A 102114.158 1.372 11.664 1.00 0.00 H  
 ATOM 1493 N SER A 103114.464 -1.158 14.141 1.00 0.00 N  
 ATOM 1494 CA SER A 103114.948 -2.477 13.755 1.00 0.00 C  
 ATOM 1495 C SER A 103113.793 -3.377 13.328 1.00 0.00 C  
 ATOM 1496 O SER A 103113.006 -3.830 14.160 1.00 0.00 O  
 ATOM 1497 CB SER A 103115.712 -3.123 14.912 1.00 0.00 C  
 ATOM 1498 OG SER A 103116.827 -3.859 14.441 1.00 0.00 O  
 ATOM 1499 H SER A 103113.705 -1.088 14.757 1.00 0.00 H  
 ATOM 1500 HA SER A 103115.619 -2.352 12.918 1.00 0.00 H  
 ATOM 1501 1HB SER A 103116.064 -2.352 15.583 1.00 0.00 H  
 ATOM 1502 2HB SER A 103115.053 -3.791 15.447 1.00 0.00 H  
 ATOM 1503 HG SER A 103117.625 -3.339 14.550 1.00 0.00 H  
 ATOM 1504 N GLY A 104113.698 -3.632 12.027 1.00 0.00 N  
 ATOM 1505 CA GLY A 104112.636 -4.477 11.513 1.00 0.00 C  
 ATOM 1506 C GLY A 104113.033 -5.939 11.455 1.00 0.00 C  
 ATOM 1507 O GLY A 104114.116 -6.238 10.910 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104112.263 -6.784 11.956 1.00 0.00 O  
 ATOM 1509 H GLY A 104114.353 -3.244 11.412 1.00 0.00 H

ATOM 1510 1HA GLY A 104 111.770 -4.376 12.151 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104 112.377 -4.146 10.518 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

### Three-Dimensional Structure Coordinate Table 15

ATOM 1 N GLY A 1120.679 30.983 -5.770 1.00 0.00 N  
 ATOM 2 CA GLY A 1121.946 31.445 -6.400 1.00 0.00 C  
 ATOM 3 C GLY A 1122.753 30.303 -6.986 1.00 0.00 C  
 ATOM 4 O GLY A 1122.711 30.059 -8.191 1.00 0.00 O  
 ATOM 5 1H GLY A 1120.030 30.619 -6.498 1.00 0.00 H  
 ATOM 6 2H GLY A 1120.217 31.771 -5.273 1.00 0.00 H  
 ATOM 7 3H GLY A 1120.875 30.224 -5.086 1.00 0.00 H  
 ATOM 8 1HA GLY A 1121.710 32.145 -7.187 1.00 0.00 H  
 ATOM 9 2HA GLY A 1122.543 31.947 -5.653 1.00 0.00 H  
 ATOM 10 N SER A 2123.490 29.602 -6.130 1.00 0.00 N  
 ATOM 11 CA SER A 2124.311 28.479 -6.568 1.00 0.00 C  
 ATOM 12 C SER A 2124.545 27.497 -5.426 1.00 0.00 C  
 ATOM 13 O SER A 2125.589 27.525 -4.775 1.00 0.00 O  
 ATOM 14 CB SER A 2125.652 28.981 -7.110 1.00 0.00 C  
 ATOM 15 OG SER A 2126.417 27.915 -7.643 1.00 0.00 O  
 ATOM 16 H SER A 2123.482 29.846 -5.180 1.00 0.00 H  
 ATOM 17 HA SER A 2123.781 27.972 -7.360 1.00 0.00 H  
 ATOM 18 1HB SER A 2125.473 29.706 -7.890 1.00 0.00 H  
 ATOM 19 2HB SER A 2126.209 29.443 -6.309 1.00 0.00 H  
 ATOM 20 HG SER A 2127.121 28.270 -8.192 1.00 0.00 H  
 ATOM 21 N SER A 3123.568 26.629 -5.188 1.00 0.00 N  
 ATOM 22 CA SER A 3123.668 25.638 -4.124 1.00 0.00 C  
 ATOM 23 C SER A 3122.933 24.356 -4.503 1.00 0.00 C  
 ATOM 24 O SER A 3121.819 24.107 -4.040 1.00 0.00 O  
 ATOM 25 CB SER A 3123.099 26.199 -2.820 1.00 0.00 C

ATOM26 OG SER A 3123.804 25.698 -1.698 1.00 0.00 O  
 ATOM27 H SER A 3122.760 26.656 -5.742 1.00 0.00 H  
 ATOM28 HA SER A 3124.714 25.409 -3.981 1.00 0.00 H  
 ATOM29 1HB SER A 3123.181 27.276 -2.828 1.00 0.00 H  
 ATOM30 2HB SER A 3122.060 25.918 -2.732 1.00 0.00 H  
 ATOM31 HG SER A 3123.329 25.922 -0.893 1.00 0.00 H  
 ATOM32 N GLY A 4123.562 23.546 -5.348 1.00 0.00 N  
 ATOM33 CA GLY A 4122.953 22.300 -5.776 1.00 0.00 C  
 ATOM34 C GLY A 4123.909 21.127 -5.686 1.00 0.00 C  
 ATOM35 O GLY A 4125.081 21.243 -6.045 1.00 0.00 O  
 ATOM36 H GLY A 4124.448 23.797 -5.684 1.00 0.00 H  
 ATOM37 1HA GLY A 4122.095 22.100 -5.152 1.00 0.00 H  
 ATOM38 2HA GLY A 4122.625 22.406 -6.799 1.00 0.00 H  
 ATOM39 N SER A 5123.408 19.994 -5.206 1.00 0.00 N  
 ATOM40 CA SER A 5124.225 18.794 -5.070 1.00 0.00 C  
 ATOM41 C SER A 5123.495 17.574 -5.622 1.00 0.00 C  
 ATOM42 O SER A 5122.346 17.311 -5.267 1.00 0.00 O  
 ATOM43 CB SER A 5124.590 18.563 -3.603 1.00 0.00 C  
 ATOM44 OG SER A 5125.250 19.693 -3.058 1.00 0.00 O  
 ATOM45 H SER A 5122.466 19.964 -4.937 1.00 0.00 H  
 ATOM46 HA SER A 5125.131 18.943 -5.637 1.00 0.00 H  
 ATOM47 1HB SER A 5123.690 18.380 -3.034 1.00 0.00 H  
 ATOM48 2HB SER A 5125.244 17.708 -3.527 1.00 0.00 H  
 ATOM49 HG SER A 5124.629 20.205 -2.535 1.00 0.00 H  
 ATOM50 N SER A 6124.170 16.830 -6.493 1.00 0.00 N  
 ATOM51 CA SER A 6123.587 15.637 -7.094 1.00 0.00 C  
 ATOM52 C SER A 6123.342 14.561 -6.042 1.00 0.00 C  
 ATOM53 O SER A 6122.320 13.877 -6.064 1.00 0.00 O  
 ATOM54 CB SER A 6124.502 15.094 -8.194 1.00 0.00 C  
 ATOM55 OG SER A 6124.009 13.870 -8.709 1.00 0.00 O  
 ATOM56 H SER A 6125.083 17.091 -6.737 1.00 0.00 H

ATOM57 HA SER A 6122.640 15.917 -7.532 1.00 0.00 H  
 ATOM58 1HB SER A 6124.560 15.813 -8.998 1.00 0.00 H  
 ATOM59 2HB SER A 6125.489 14.929 -7.787 1.00 0.00 H  
 ATOM60 HG SER A 6124.036 13.200 -8.024 1.00 0.00 H  
 ATOM61 N GLY A 7124.290 14.415 -5.121 1.00 0.00 N  
 ATOM62 CA GLY A 7124.159 13.420 -4.073 1.00 0.00 C  
 ATOM63 C GLY A 7124.966 12.168 -4.358 1.00 0.00 C  
 ATOM64 O GLY A 7124.410 11.130 -4.715 1.00 0.00 O  
 ATOM65 H GLY A 7125.084 14.989 -5.153 1.00 0.00 H  
 ATOM66 1HA GLY A 7124.496 13.848 -3.141 1.00 0.00 H  
 ATOM67 2HA GLY A 7123.118 13.149 -3.978 1.00 0.00 H  
 ATOM68 N LEU A 8126.282 12.267 -4.199 1.00 0.00 N  
 ATOM69 CA LEU A 8127.168 11.136 -4.441 1.00 0.00 C  
 ATOM70 C LEU A 8127.444 10.371 -3.149 1.00 0.00 C  
 ATOM71 O LEU A 8127.690 9.166 -3.171 1.00 0.00 O  
 ATOM72 CB LEU A 8128.485 11.614 -5.055 1.00 0.00 C  
 ATOM73 CG LEU A 8128.357 12.279 -6.427 1.00 0.00 C  
 ATOM74 CD1 LEU A 8129.663 12.949 -6.820 1.00 0.00 C  
 ATOM75 CD2 LEU A 8127.944 11.256 -7.475 1.00 0.00 C  
 ATOM76 H LEU A 8126.666 13.122 -3.912 1.00 0.00 H  
 ATOM77 HA LEU A 8126.677 10.473 -5.139 1.00 0.00 H  
 ATOM78 1HB LEU A 8128.937 12.324 -4.375 1.00 0.00 H  
 ATOM79 2HB LEU A 8129.144 10.765 -5.151 1.00 0.00 H  
 ATOM80 HG LEU A 8127.592 13.039 -6.381 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8130.493 12.379 -6.430 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8129.691 13.950 -6.412 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8129.734 12.997 -7.896 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8128.293 11.574 -8.446 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8126.867 11.171 -7.490 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8128.377 10.297 -7.233 1.00 0.00 H  
 ATOM87 N ALA A 9127.401 11.081 -2.026 1.00 0.00 N

ATOM88 CA ALAA 9127.645 10.468 -0.726 1.00 0.00 C  
 ATOM89 C ALAA 9129.062 9.911 -0.640 1.00 0.00 C  
 ATOM90 O ALAA 9129.282 8.825 -0.104 1.00 0.00 O  
 ATOM91 CB ALAA 9126.626 9.371 -0.457 1.00 0.00 C  
 ATOM92 H ALAA 9127.199 12.039 -2.073 1.00 0.00 H  
 ATOM93 HA ALAA 9127.524 11.231 0.030 1.00 0.00 H  
 ATOM94 1HB ALAA 9126.702 9.053 0.573 1.00 0.00 H  
 ATOM95 2HB ALAA 9126.821 8.532 -1.108 1.00 0.00 H  
 ATOM96 3HB ALAA 9125.632 9.749 -0.645 1.00 0.00 H  
 ATOM97 N META 10130.020 10.663 -1.171 1.00 0.00 N  
 ATOM98 CA META 10131.417 10.244 -1.155 1.00 0.00 C  
 ATOM99 C META 10132.321 11.385 -0.688 1.00 0.00 C  
 ATOM 100 O META 10133.052 11.975 -1.484 1.00 0.00 O  
 ATOM 101 CB META 10131.845 9.772 -2.545 1.00 0.00 C  
 ATOM 102 CG META 10130.834 8.856 -3.215 1.00 0.00 C  
 ATOM 103 SD META 10131.476 8.092 -4.717 1.00 0.00 S  
 ATOM 104 CE META 10131.040 9.327 -5.937 1.00 0.00 C  
 ATOM 105 H META 10129.783 11.519 -1.583 1.00 0.00 H  
 ATOM 106 HA META 10131.508 9.422 -0.461 1.00 0.00 H  
 ATOM 107 1HB META 10131.990 10.636 -3.178 1.00 0.00 H  
 ATOM 108 2HB META 10132.781 9.240 -2.460 1.00 0.00 H  
 ATOM 109 1HG META 10130.562 8.074 -2.520 1.00 0.00 H  
 ATOM 110 2HG META 10129.957 9.433 -3.468 1.00 0.00 H  
 ATOM 111 1HE META 10131.068 10.308 -5.484 1.00 0.00 H  
 ATOM 112 2HE META 10130.045 9.131 -6.310 1.00 0.00 H  
 ATOM 113 3HE META 10131.744 9.290 -6.755 1.00 0.00 H  
 ATOM 114 N PRO A 11132.281 11.710 0.616 1.00 0.00 N  
 ATOM 115 CA PRO A 11133.100 12.784 1.185 1.00 0.00 C  
 ATOM 116 C PRO A 11134.595 12.556 0.964 1.00 0.00 C  
 ATOM 117 O PRO A 11135.309 13.464 0.541 1.00 0.00 O  
 ATOM 118 CB PRO A 11132.769 12.754 2.681 1.00 0.00 C



ATOM	119	CG	PRO A	11131.476	12.019	2.785	1.00	0.00	C
ATOM	120	CD	PRO A	11131.439	11.057	1.632	1.00	0.00	C
ATOM	121	HA	PRO A	11132.825	13.745	0.774	1.00	0.00	H
ATOM	122	1HB	PRO A	11133.557	12.246	3.216	1.00	0.00	H
ATOM	123	2HB	PRO A	11132.675	13.766	3.049	1.00	0.00	H
ATOM	124	1HG	PRO A	11131.439	11.479	3.719	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.653	12.714	2.720	1.00	0.00	H
ATOM	126	1HD	PRO A	11131.852	10.102	1.921	1.00	0.00	H
ATOM	127	2HD	PRO A	11130.427	10.938	1.273	1.00	0.00	H
ATOM	128	N	PRO A	12135.093	11.335	1.242	1.00	0.00	N
ATOM	129	CA	PRO A	12136.511	11.009	1.060	1.00	0.00	C
ATOM	130	C	PRO A	12136.986	11.295	-0.360	1.00	0.00	C
ATOM	131	O	PRO A	12138.180	11.481	-0.600	1.00	0.00	O
ATOM	132	CB	PRO A	12136.579	9.506	1.352	1.00	0.00	C
ATOM	133	CG	PRO A	12135.386	9.226	2.199	1.00	0.00	C
ATOM	134	CD	PRO A	12134.322	10.182	1.744	1.00	0.00	C
ATOM	135	HA	PRO A	12137.133	11.544	1.762	1.00	0.00	H
ATOM	136	1HB	PRO A	12136.543	8.956	0.423	1.00	0.00	H
ATOM	137	2HB	PRO A	12137.495	9.281	1.875	1.00	0.00	H
ATOM	138	1HG	PRO A	12135.063	8.206	2.050	1.00	0.00	H
ATOM	139	2HG	PRO A	12135.625	9.397	3.237	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.730	9.741	0.954	1.00	0.00	H
ATOM	141	2HD	PRO A	12133.694	10.468	2.572	1.00	0.00	H
ATOM	142	N	GLY A	13136.044	11.330	-1.297	1.00	0.00	N
ATOM	143	CA	GLY A	13136.385	11.595	-2.682	1.00	0.00	C
ATOM	144	C	GLY A	13136.856	10.353	-3.413	1.00	0.00	C
ATOM	145	O	GLY A	13137.632	10.440	-4.365	1.00	0.00	O
ATOM	146	H	GLY A	13135.109	11.175	-1.047	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.516	11.988	-3.187	1.00	0.00	H
ATOM	148	2HA	GLY A	13137.171	12.335	-2.713	1.00	0.00	H
ATOM	149	N	ASN A	14136.386	9.192	-2.966	1.00	0.00	N

ATOM	150	CA	ASN A	14136.765	7.926	-3.585	1.00	0.00	C
ATOM	151	C	ASN A	14135.536	7.063	-3.854	1.00	0.00	C
ATOM	152	O	ASN A	14135.169	6.832	-5.006	1.00	0.00	O
ATOM	153	CB	ASN A	14137.746	7.169	-2.688	1.00	0.00	C
ATOM	154	CG	ASN A	14138.934	8.021	-2.284	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.701	8.478	-3.130	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.092	8.236	-0.983	1.00	0.00	N
ATOM	157	H	ASN A	14135.771	9.186	-2.204	1.00	0.00	H
ATOM	158	HA	ASN A	14137.246	8.147	-4.524	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.234	6.851	-1.792	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.111	6.301	-3.216	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.442	7.841	-0.365	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.852	8.783	-0.694	1.00	0.00	H
ATOM	163	N	SER A	15134.904	6.590	-2.785	1.00	0.00	N
ATOM	164	CA	SER A	15133.717	5.753	-2.908	1.00	0.00	C
ATOM	165	C	SER A	15132.994	5.633	-1.570	1.00	0.00	C
ATOM	166	O	SER A	15131.949	6.251	-1.359	1.00	0.00	O
ATOM	167	CB	SER A	15134.098	4.363	-3.419	1.00	0.00	C
ATOM	168	OG	SER A	15134.120	4.328	-4.836	1.00	0.00	O
ATOM	169	H	SER A	15135.245	6.809	-1.892	1.00	0.00	H
ATOM	170	HA	SER A	15133.054	6.220	-3.620	1.00	0.00	H
ATOM	171	1HB	SER A	15135.079	4.102	-3.051	1.00	0.00	H
ATOM	172	2HB	SER A	15133.377	3.640	-3.065	1.00	0.00	H
ATOM	173	HG	SER A	15133.330	4.753	-5.179	1.00	0.00	H
ATOM	174	N	HIS A	16133.555	4.836	-0.667	1.00	0.00	N
ATOM	175	CA	HIS A	16132.964	4.636	0.651	1.00	0.00	C
ATOM	176	C	HIS A	16133.749	5.390	1.720	1.00	0.00	C
ATOM	177	O	HIS A	16133.304	6.427	2.214	1.00	0.00	O
ATOM	178	CB	HIS A	16132.919	3.145	0.992	1.00	0.00	C
ATOM	179	CG	HIS A	16131.652	2.471	0.564	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.421	2.767	1.112	1.00	0.00	N

ATOM	181	CD2 HIS A	16131.427	1.513	-0.365	1.00	0.00	C
ATOM	182	CE1 HIS A	16129.495	2.018	0.539	1.00	0.00	C
ATOM	183	NE2 HIS A	16130.079	1.248	-0.360	1.00	0.00	N
ATOM	184	H HIS A	16134.388	4.371	-0.893	1.00	0.00	H
ATOM	185	HA HIS A	16131.956	5.020	0.623	1.00	0.00	H
ATOM	186	1HB HIS A	16133.741	2.645	0.501	1.00	0.00	H
ATOM	187	2HB HIS A	16133.016	3.024	2.060	1.00	0.00	H
ATOM	188	HD1 HIS A	16130.251	3.427	1.817	1.00	0.00	H
ATOM	189	HD2 HIS A	16132.171	1.042	-0.992	1.00	0.00	H
ATOM	190	HE1 HIS A	16128.440	2.033	0.768	1.00	0.00	H
ATOM	191	HE2 HIS A	16129.636	0.539	-0.870	1.00	0.00	H
ATOM	192	N GLY A	17134.916	4.863	2.071	1.00	0.00	N
ATOM	193	CA GLY A	17135.744	5.499	3.079	1.00	0.00	C
ATOM	194	C GLY A	17137.137	4.907	3.143	1.00	0.00	C
ATOM	195	O GLY A	17137.453	4.141	4.056	1.00	0.00	O
ATOM	196	H GLY A	17135.219	4.035	1.643	1.00	0.00	H
ATOM	197	1HA GLY A	17135.823	6.552	2.852	1.00	0.00	H
ATOM	198	2HA GLY A	17135.271	5.384	4.044	1.00	0.00	H
ATOM	199	N LEU A	18137.973	5.258	2.173	1.00	0.00	N
ATOM	200	CA LEU A	18139.341	4.753	2.121	1.00	0.00	C
ATOM	201	C LEU A	18140.327	5.797	2.636	1.00	0.00	C
ATOM	202	O LEU A	18140.741	6.692	1.898	1.00	0.00	O
ATOM	203	CB LEU A	18139.705	4.353	0.691	1.00	0.00	C
ATOM	204	CG LEU A	18138.656	3.503	-0.030	1.00	0.00	C
ATOM	205	CD1 LEU A	18138.908	3.505	-1.530	1.00	0.00	C
ATOM	206	CD2 LEU A	18138.661	2.082	0.512	1.00	0.00	C
ATOM	207	H LEU A	18137.663	5.870	1.473	1.00	0.00	H
ATOM	208	HA LEU A	18139.396	3.881	2.756	1.00	0.00	H
ATOM	209	1HB LEU A	18139.866	5.253	0.117	1.00	0.00	H
ATOM	210	2HB LEU A	18140.629	3.795	0.720	1.00	0.00	H
ATOM	211	HG LEU A	18137.678	3.926	0.146	1.00	0.00	H

ATOM	212	1HD1	LEU A	18138.015	3.179	-2.044	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.721	2.833	-1.760	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.163	4.505	-1.850	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.267	1.410	-0.236	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.048	2.032	1.399	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.672	1.792	0.757	1.00	0.00	H
ATOM	218	N	GLU A	19140.700	5.676	3.905	1.00	0.00	N
ATOM	219	CA	GLU A	19141.638	6.608	4.520	1.00	0.00	C
ATOM	220	C	GLU A	19142.630	5.870	5.412	1.00	0.00	C
ATOM	221	O	GLU A	19142.538	4.654	5.586	1.00	0.00	O
ATOM	222	CB	GLU A	19140.885	7.661	5.337	1.00	0.00	C
ATOM	223	CG	GLU A	19139.926	7.069	6.356	1.00	0.00	C
ATOM	224	CD	GLU A	19139.298	8.123	7.247	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.963	9.146	7.514	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.142	7.926	7.676	1.00	0.00	O
ATOM	227	H	GLU A	19140.335	4.942	4.443	1.00	0.00	H
ATOM	228	HA	GLU A	19142.181	7.101	3.728	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.603	8.273	5.862	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.318	8.285	4.661	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.138	6.548	5.831	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.467	6.369	6.977	1.00	0.00	H
ATOM	233	N	VAL A	20143.579	6.610	5.974	1.00	0.00	N
ATOM	234	CA	VAL A	20144.588	6.024	6.848	1.00	0.00	C
ATOM	235	C	VAL A	20143.947	5.367	8.064	1.00	0.00	C
ATOM	236	O	VAL A	20143.135	5.980	8.758	1.00	0.00	O
ATOM	237	CB	VAL A	20145.602	7.081	7.324	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.750	6.422	8.073	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.120	7.892	6.146	1.00	0.00	C
ATOM	240	H	VAL A	20143.601	7.574	5.796	1.00	0.00	H
ATOM	241	HA	VAL A	20145.122	5.273	6.284	1.00	0.00	H
ATOM	242	HB	VAL A	20145.097	7.754	8.003	1.00	0.00	H

ATOM	243	1HG1	VAL A	20146.980	5.471	7.616	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.465	6.266	9.103	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.619	7.061	8.034	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.387	7.226	5.339	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.991	8.454	6.451	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.352	8.573	5.811	1.00	0.00	H
ATOM	249	N	GLY A	21144.315	4.116	8.318	1.00	0.00	N
ATOM	250	CA	GLY A	21143.767	3.397	9.453	1.00	0.00	C
ATOM	251	C	GLY A	21142.730	2.369	9.043	1.00	0.00	C
ATOM	252	O	GLY A	21142.569	1.342	9.702	1.00	0.00	O
ATOM	253	H	GLY A	21144.967	3.678	7.731	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.571	2.894	9.970	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.308	4.105	10.127	1.00	0.00	H
ATOM	256	N	SER A	22142.025	2.646	7.951	1.00	0.00	N
ATOM	257	CA	SER A	22140.997	1.738	7.453	1.00	0.00	C
ATOM	258	C	SER A	22141.600	0.694	6.520	1.00	0.00	C
ATOM	259	O	SER A	22142.542	0.977	5.779	1.00	0.00	O
ATOM	260	CB	SER A	22139.905	2.522	6.724	1.00	0.00	C
ATOM	261	OG	SER A	22139.368	3.539	7.552	1.00	0.00	O
ATOM	262	H	SER A	22142.199	3.481	7.468	1.00	0.00	H
ATOM	263	HA	SER A	22140.561	1.235	8.303	1.00	0.00	H
ATOM	264	1HB	SER A	22140.322	2.979	5.839	1.00	0.00	H
ATOM	265	2HB	SER A	22139.110	1.847	6.440	1.00	0.00	H
ATOM	266	HG	SER A	22139.019	3.147	8.356	1.00	0.00	H
ATOM	267	N	LEU A	23141.050	-0.515	6.559	1.00	0.00	N
ATOM	268	CA	LEU A	23141.534	-1.603	5.717	1.00	0.00	C
ATOM	269	C	LEU A	23141.086	-1.412	4.272	1.00	0.00	C
ATOM	270	O	LEU A	23139.981	-0.937	4.011	1.00	0.00	O
ATOM	271	CB	LEU A	23141.030	-2.948	6.245	1.00	0.00	C
ATOM	272	CG	LEU A	23141.349	-3.227	7.714	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.291	-4.131	8.328	1.00	0.00	C

ATOM	274	CD2	LEU A	23142.729	-3.851	7.849	1.00	0.00	C
ATOM	275	H	LEU A	23140.302	-0.680	7.171	1.00	0.00	H
ATOM	276	HA	LEU A	23142.613	-1.595	5.752	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.958	-2.982	6.118	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.470	-3.733	5.649	1.00	0.00	H
ATOM	279	HG	LEU A	23141.348	-2.294	8.260	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.741	-4.742	9.095	1.00	0.00	H
ATOM	281	2HD1	LEU A	23139.871	-4.765	7.562	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.509	-3.525	8.763	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.207	-3.480	8.744	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.327	-3.594	6.987	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.635	-4.926	7.913	1.00	0.00	H
ATOM	286	N	ALA A	24141.952	-1.786	3.335	1.00	0.00	N
ATOM	287	CA	ALA A	24141.646	-1.657	1.917	1.00	0.00	C
ATOM	288	C	ALA A	24142.301	-2.774	1.110	1.00	0.00	C
ATOM	289	O	ALA A	24143.405	-3.216	1.426	1.00	0.00	O
ATOM	290	CB	ALA A	24142.097	-0.299	1.401	1.00	0.00	C
ATOM	291	H	ALA A	24142.817	-2.159	3.606	1.00	0.00	H
ATOM	292	HA	ALA A	24140.575	-1.723	1.799	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.698	-0.138	0.411	1.00	0.00	H
ATOM	294	2HB	ALA A	24143.176	-0.267	1.364	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.737	0.475	2.064	1.00	0.00	H
ATOM	296	N	GLU A	25141.611	-3.226	0.068	1.00	0.00	N
ATOM	297	CA	GLU A	25142.125	-4.292	-0.784	1.00	0.00	C
ATOM	298	C	GLU A	25142.308	-3.804	-2.217	1.00	0.00	C
ATOM	299	O	GLU A	25141.520	-2.999	-2.715	1.00	0.00	O
ATOM	300	CB	GLU A	25141.178	-5.493	-0.760	1.00	0.00	C
ATOM	301	CG	GLU A	25141.860	-6.812	-1.087	1.00	0.00	C
ATOM	302	CD	GLU A	25141.004	-7.711	-1.959	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.828	-8.893	-1.599	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.509	-7.231	-3.001	1.00	0.00	O

ATOM	305	H	GLU A	25140.736	-2.833	-0.133	1.00	0.00	H
ATOM	306	HA	GLU A	25143.086	-4.595	-0.395	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.741	-5.574	0.224	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.391	-5.331	-1.482	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.783	-6.606	-1.607	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.074	-7.330	-0.164	1.00	0.00	H
ATOM	311	N	VAL A	26143.353	-4.295	-2.876	1.00	0.00	N
ATOM	312	CA	VAL A	26143.639	-3.909	-4.252	1.00	0.00	C
ATOM	313	C	VAL A	26143.308	-5.041	-5.219	1.00	0.00	C
ATOM	314	O	VAL A	26143.243	-6.207	-4.827	1.00	0.00	O
ATOM	315	CB	VAL A	26145.118	-3.513	-4.429	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.362	-2.965	-5.827	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.530	-2.499	-3.372	1.00	0.00	C
ATOM	318	H	VAL A	26143.944	-4.934	-2.425	1.00	0.00	H
ATOM	319	HA	VAL A	26143.026	-3.052	-4.493	1.00	0.00	H
ATOM	320	HB	VAL A	26145.724	-4.398	-4.304	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.516	-3.785	-6.513	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.239	-2.335	-5.818	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.506	-2.388	-6.142	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.511	-2.751	-2.996	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.819	-2.513	-2.560	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.556	-1.512	-3.810	1.00	0.00	H
ATOM	327	N	LYS A	27143.097	-4.690	-6.483	1.00	0.00	N
ATOM	328	CA	LYS A	27142.772	-5.678	-7.506	1.00	0.00	C
ATOM	329	C	LYS A	27144.017	-6.081	-8.290	1.00	0.00	C
ATOM	330	O	LYS A	27143.958	-6.293	-9.501	1.00	0.00	O
ATOM	331	CB	LYS A	27141.711	-5.125	-8.460	1.00	0.00	C
ATOM	332	CG	LYS A	27140.976	-6.201	-9.241	1.00	0.00	C
ATOM	333	CD	LYS A	27140.368	-5.643	-10.518	1.00	0.00	C
ATOM	334	CE	LYS A	27140.343	-6.687	-11.623	1.00	0.00	C
ATOM	335	NZ	LYS A	27139.044	-7.413	-11.675	1.00	0.00	N

ATOM	336	H	LYS A	27143.163	-3.745	-6.734	1.00	0.00	H
ATOM	337	HA	LYS A	27142.375	-6.550	-7.009	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.985	-4.565	-7.888	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.189	-4.461	-9.165	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.671	-6.984	-9.498	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.187	-6.604	-8.624	1.00	0.00	H
ATOM	342	1HD	LYS A	27139.356	-5.326	-10.315	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.955	-4.798	-10.846	1.00	0.00	H
ATOM	344	1HE	LYS A	27140.507	-6.194	-12.570	1.00	0.00	H
ATOM	345	2HE	LYS A	27141.137	-7.398	-11.447	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.370	-6.896	-12.277	1.00	0.00	H
ATOM	347	2HZ	LYS A	27138.643	-7.495	-10.720	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.182	-8.367	-12.065	1.00	0.00	H
ATOM	349	N	GLU A	28145.141	-6.187	-7.591	1.00	0.00	N
ATOM	350	CA	GLU A	28146.401	-6.566	-8.222	1.00	0.00	C
ATOM	351	C	GLU A	28146.446	-8.068	-8.485	1.00	0.00	C
ATOM	352	O	GLU A	28145.486	-8.786	-8.207	1.00	0.00	O
ATOM	353	CB	GLU A	28147.582	-6.154	-7.340	1.00	0.00	C
ATOM	354	CG	GLU A	28148.687	-5.437	-8.100	1.00	0.00	C
ATOM	355	CD	GLU A	28150.071	-5.885	-7.675	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.576	-5.368	-6.655	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.652	-6.753	-8.360	1.00	0.00	O
ATOM	358	H	GLU A	28145.125	-6.005	-6.628	1.00	0.00	H
ATOM	359	HA	GLU A	28146.468	-6.045	-9.165	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.223	-5.494	-6.564	1.00	0.00	H
ATOM	361	2HB	GLU A	28148.003	-7.037	-6.883	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.570	-5.638	-9.155	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.598	-4.376	-7.924	1.00	0.00	H
ATOM	364	N	ASN A	29147.567	-8.535	-9.023	1.00	0.00	N
ATOM	365	CA	ASN A	29147.737	-9.952	-9.323	1.00	0.00	C
ATOM	366	C	ASN A	29147.676	-10.789	-8.047	1.00	0.00	C



ATOM	367	O	ASN A	29146.827	-11.670	-7.913	1.00	0.00	O
ATOM	368	CB	ASN A	29149.069	-10.187	-10.039	1.00	0.00	C
ATOM	369	CG	ASN A	29148.909	-10.256	-11.545	1.00	0.00	C
ATOM	370	OD1	ASN A	29148.911	-11.338	-12.132	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.770	-9.097	-12.180	1.00	0.00	N
ATOM	372	H	ASN A	29148.298	-7.914	-9.221	1.00	0.00	H
ATOM	373	HA	ASN A	29146.930	-10.252	-9.975	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.744	-9.378	-9.805	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.497	-11.118	-9.697	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.778	-8.275	-11.647	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.665	-9.113	-13.154	1.00	0.00	H
ATOM	378	N	PRO A	30148.579	-10.522	-7.087	1.00	0.00	N
ATOM	379	CA	PRO A	30148.624	-11.252	-5.818	1.00	0.00	C
ATOM	380	C	PRO A	30147.529	-10.802	-4.852	1.00	0.00	C
ATOM	381	O	PRO A	30147.581	-9.694	-4.319	1.00	0.00	O
ATOM	382	CB	PRO A	30150.002	-10.898	-5.265	1.00	0.00	C
ATOM	383	CG	PRO A	30150.284	-9.540	-5.809	1.00	0.00	C
ATOM	384	CD	PRO A	30149.627	-9.485	-7.165	1.00	0.00	C
ATOM	385	HA	PRO A	30148.557	-12.319	-5.972	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.971	-10.894	-4.186	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.729	-11.619	-5.609	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.862	-8.790	-5.158	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.351	-9.397	-5.905	1.00	0.00	H
ATOM	390	1HD	PRO A	30149.194	-8.511	-7.333	1.00	0.00	H
ATOM	391	2HD	PRO A	30150.342	-9.719	-7.938	1.00	0.00	H
ATOM	392	N	PRO A	31146.518	-11.657	-4.609	1.00	0.00	N
ATOM	393	CA	PRO A	31145.415	-11.332	-3.699	1.00	0.00	C
ATOM	394	C	PRO A	31145.868	-11.257	-2.244	1.00	0.00	C
ATOM	395	O	PRO A	31145.707	-12.211	-1.484	1.00	0.00	O
ATOM	396	CB	PRO A	31144.435	-12.490	-3.895	1.00	0.00	C
ATOM	397	CG	PRO A	31145.275	-13.621	-4.374	1.00	0.00	C

ATOM	398	CD	PRO A	31146.370	-13.002	-5.197	1.00	0.00	C
ATOM	399	HA	PRO A	31144.939	-10.401	-3.973	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.954	-12.723	-2.956	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.690	-12.215	-4.628	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.694	-14.151	-3.530	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.682	-14.290	-4.981	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.284	-13.570	-5.097	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.074	-12.939	-6.233	1.00	0.00	H
ATOM	406	N	PHE A	32146.434	-10.116	-1.864	1.00	0.00	N
ATOM	407	CA	PHE A	32146.910	-9.917	-0.501	1.00	0.00	C
ATOM	408	C	PHE A	32145.913	-9.094	0.309	1.00	0.00	C
ATOM	409	O	PHE A	32144.931	-8.584	-0.232	1.00	0.00	O
ATOM	410	CB	PHE A	32148.272	-9.220	-0.511	1.00	0.00	C
ATOM	411	CG	PHE A	32148.324	-8.017	-1.409	1.00	0.00	C
ATOM	412	CD1	PHE A	32149.118	-8.018	-2.544	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.577	-6.887	-1.119	1.00	0.00	C
ATOM	414	CE1	PHE A	32149.167	-6.913	-3.373	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.622	-5.779	-1.944	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.419	-5.791	-3.072	1.00	0.00	C
ATOM	417	H	PHE A	32146.535	-9.391	-2.517	1.00	0.00	H
ATOM	418	HA	PHE A	32147.015	-10.887	-0.041	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.511	-8.896	0.491	1.00	0.00	H
ATOM	420	2HB	PHE A	32149.024	-9.919	-0.846	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.704	-8.894	-2.780	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.954	-6.875	-0.236	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.792	-6.925	-4.254	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.036	-4.903	-1.705	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.456	-4.928	-3.718	1.00	0.00	H
ATOM	426	N	TYR A	33146.171	-8.970	1.606	1.00	0.00	N
ATOM	427	CA	TYR A	33145.294	-8.209	2.489	1.00	0.00	C
ATOM	428	C	TYR A	33146.106	-7.332	3.438	1.00	0.00	C

ATOM	429	O	TYR A	33146.957	-7.824	4.180	1.00	0.00	O
ATOM	430	CB	TYR A	33144.398	-9.154	3.291	1.00	0.00	C
ATOM	431	CG	TYR A	33143.192	-9.643	2.522	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.956	-11.002	2.350	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.287	-8.745	1.967	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.854	-11.451	1.648	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.183	-9.188	1.264	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.971	-10.541	1.107	1.00	0.00	C
ATOM	437	OH	TYR A	33139.873	-10.985	0.407	1.00	0.00	O
ATOM	438	H	TYR A	33146.969	-9.398	1.978	1.00	0.00	H
ATOM	439	HA	TYR A	33144.674	-7.574	1.875	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.973	-10.019	3.588	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.046	-8.642	4.174	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.649	-11.712	2.776	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.457	-7.686	2.092	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.688	-12.511	1.526	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.492	-8.474	0.840	1.00	0.00	H
ATOM	446	HH	TYR A	33139.113	-11.017	0.991	1.00	0.00	H
ATOM	447	N	GLY A	34145.837	-6.031	3.408	1.00	0.00	N
ATOM	448	CA	GLY A	34146.550	-5.107	4.269	1.00	0.00	C
ATOM	449	C	GLY A	34145.676	-3.963	4.743	1.00	0.00	C
ATOM	450	O	GLY A	34144.452	-4.089	4.797	1.00	0.00	O
ATOM	451	H	GLY A	34145.148	-5.696	2.796	1.00	0.00	H
ATOM	452	1HA	GLY A	34146.918	-5.644	5.131	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.390	-4.701	3.726	1.00	0.00	H
ATOM	454	N	VAL A	35146.303	-2.843	5.086	1.00	0.00	N
ATOM	455	CA	VAL A	35145.574	-1.672	5.558	1.00	0.00	C
ATOM	456	C	VAL A	35146.235	-0.383	5.078	1.00	0.00	C
ATOM	457	O	VAL A	35147.452	-0.326	4.904	1.00	0.00	O
ATOM	458	CB	VAL A	35145.480	-1.651	7.096	1.00	0.00	C
ATOM	459	CG1	VAL A	35146.865	-1.581	7.720	1.00	0.00	C

ATOM	460	CG2	VAL A	35144.617	-0.488	7.565	1.00	0.00	C
ATOM	461	H	VAL A	35147.280	-2.802	5.021	1.00	0.00	H
ATOM	462	HA	VAL A	35144.572	-1.721	5.158	1.00	0.00	H
ATOM	463	HB	VAL A	35145.012	-2.570	7.420	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.133	-0.548	7.891	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.585	-2.032	7.051	1.00	0.00	H
ATOM	466	3HG1	VAL A	35146.866	-2.114	8.660	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.012	0.436	7.169	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.623	-0.448	8.645	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.605	-0.627	7.216	1.00	0.00	H
ATOM	470	N	ILE A	36145.424	0.648	4.865	1.00	0.00	N
ATOM	471	CA	ILE A	36145.931	1.935	4.406	1.00	0.00	C
ATOM	472	C	ILE A	36146.835	2.573	5.456	1.00	0.00	C
ATOM	473	O	ILE A	36146.530	2.553	6.647	1.00	0.00	O
ATOM	474	CB	ILE A	36144.781	2.907	4.074	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.779	2.243	3.126	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.328	4.187	3.460	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.620	3.139	2.746	1.00	0.00	C
ATOM	478	H	ILE A	36144.463	0.540	5.022	1.00	0.00	H
ATOM	479	HA	ILE A	36146.503	1.767	3.506	1.00	0.00	H
ATOM	480	HB	ILE A	36144.279	3.165	4.994	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.288	1.957	2.217	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.376	1.360	3.600	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.563	4.949	3.473	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.630	3.999	2.440	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.181	4.525	4.031	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.885	4.169	2.932	1.00	0.00	H
ATOM	487	2HD1	ILE A	36141.755	2.878	3.339	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.392	3.008	1.699	1.00	0.00	H
ATOM	489	N	ARG A	37147.950	3.137	5.004	1.00	0.00	N
ATOM	490	CA	ARG A	37148.901	3.779	5.905	1.00	0.00	C

ATOM	491	C	ARG A	37149.107	5.243	5.529	1.00	0.00	C
ATOM	492	O	ARG A	37148.852	6.142	6.331	1.00	0.00	O
ATOM	493	CB	ARG A	37150.240	3.041	5.877	1.00	0.00	C
ATOM	494	CG	ARG A	37150.108	1.536	6.049	1.00	0.00	C
ATOM	495	CD	ARG A	37149.381	1.183	7.336	1.00	0.00	C
ATOM	496	NE	ARG A	37150.219	1.390	8.514	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.776	1.294	9.766	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.506	0.996	10.006	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.606	1.498	10.780	1.00	0.00	N
ATOM	500	H	ARG A	37148.140	3.120	4.043	1.00	0.00	H
ATOM	501	HA	ARG A	37148.495	3.731	6.904	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.725	3.232	4.932	1.00	0.00	H
ATOM	503	2HB	ARG A	37150.863	3.418	6.675	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.555	1.135	5.213	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.096	1.098	6.072	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.501	1.804	7.419	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.084	0.145	7.294	1.00	0.00	H
ATOM	508	HE	ARG A	37151.162	1.612	8.365	1.00	0.00	H
ATOM	509	1HH1	ARG A	37147.875	0.841	9.245	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.179	0.925	10.949	1.00	0.00	H
ATOM	511	1HH2	ARG A	37151.565	1.723	10.604	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.274	1.426	11.720	1.00	0.00	H
ATOM	513	N	TRP A	38149.570	5.476	4.305	1.00	0.00	N
ATOM	514	CA	TRP A	38149.811	6.832	3.825	1.00	0.00	C
ATOM	515	C	TRP A	38149.117	7.071	2.486	1.00	0.00	C
ATOM	516	O	TRP A	38149.194	6.244	1.578	1.00	0.00	O
ATOM	517	CB	TRP A	38151.316	7.090	3.690	1.00	0.00	C
ATOM	518	CG	TRP A	38151.645	8.370	2.979	1.00	0.00	C
ATOM	519	CD1	TRP A	38151.811	9.602	3.542	1.00	0.00	C
ATOM	520	CD2	TRP A	38151.843	8.541	1.571	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.101	10.529	2.569	1.00	0.00	N

ATOM	522	CE2	TRP A	38152.125	9.902	1.351	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.808	7.676	0.474	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.372	10.415	0.080	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.054	8.185	-0.786	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.333	9.544	-0.975	1.00	0.00	C
ATOM	527	H	TRP A	38149.755	4.719	3.711	1.00	0.00	H
ATOM	528	HA	TRP A	38149.403	7.517	4.553	1.00	0.00	H
ATOM	529	1HB	TRP A	38151.755	7.134	4.675	1.00	0.00	H
ATOM	530	2HB	TRP A	38151.764	6.276	3.138	1.00	0.00	H
ATOM	531	HD1	TRP A	38151.725	9.805	4.599	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.263	11.484	2.724	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.595	6.625	0.599	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.586	11.461	-0.083	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.031	7.530	-1.645	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.518	9.899	-1.979	1.00	0.00	H
ATOM	537	N	ILE A	39148.450	8.214	2.372	1.00	0.00	N
ATOM	538	CA	ILE A	39147.751	8.576	1.147	1.00	0.00	C
ATOM	539	C	ILE A	39148.211	9.942	0.653	1.00	0.00	C
ATOM	540	O	ILE A	39147.859	10.971	1.229	1.00	0.00	O
ATOM	541	CB	ILE A	39146.222	8.603	1.353	1.00	0.00	C
ATOM	542	CG1	ILE A	39145.750	7.301	2.003	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.511	8.827	0.028	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.484	7.455	2.817	1.00	0.00	C
ATOM	545	H	ILE A	39148.433	8.833	3.131	1.00	0.00	H
ATOM	546	HA	ILE A	39147.981	7.834	0.396	1.00	0.00	H
ATOM	547	HB	ILE A	39145.985	9.429	2.006	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.560	6.569	1.232	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.525	6.931	2.660	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.606	9.864	-0.260	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.466	8.577	0.133	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.957	8.202	-0.731	1.00	0.00	H

ATOM	553	1HD1	ILE A	39144.106	8.462	2.706	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.699	7.265	3.858	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.742	6.752	2.468	1.00	0.00	H
ATOM	556	N	GLY A	40149.008	9.947	-0.411	1.00	0.00	N
ATOM	557	CA	GLY A	40149.508	11.196	-0.952	1.00	0.00	C
ATOM	558	C	GLY A	40150.119	11.035	-2.329	1.00	0.00	C
ATOM	559	O	GLY A	40149.963	9.996	-2.970	1.00	0.00	O
ATOM	560	H	GLY A	40149.261	9.097	-0.828	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.694	11.901	-1.013	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.257	11.588	-0.282	1.00	0.00	H
ATOM	563	N	GLN A	41150.815	12.071	-2.785	1.00	0.00	N
ATOM	564	CA	GLN A	41151.452	12.052	-4.094	1.00	0.00	C
ATOM	565	C	GLN A	41152.919	12.468	-3.988	1.00	0.00	C
ATOM	566	O	GLN A	41153.223	13.605	-3.629	1.00	0.00	O
ATOM	567	CB	GLN A	41150.710	12.989	-5.046	1.00	0.00	C
ATOM	568	CG	GLN A	41149.202	12.798	-5.033	1.00	0.00	C
ATOM	569	CD	GLN A	41148.450	14.112	-5.103	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.391	14.860	-4.127	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.871	14.397	-6.261	1.00	0.00	N
ATOM	572	H	GLN A	41150.900	12.871	-2.227	1.00	0.00	H
ATOM	573	HA	GLN A	41151.396	11.045	-4.478	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.923	14.009	-4.767	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.065	12.818	-6.049	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.920	12.194	-5.882	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.924	12.288	-4.122	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.960	13.751	-6.992	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.378	15.240	-6.338	1.00	0.00	H
ATOM	580	N	PRO A	42153.854	11.549	-4.297	1.00	0.00	N
ATOM	581	CA	PRO A	42155.292	11.834	-4.231	1.00	0.00	C
ATOM	582	C	PRO A	42155.691	13.017	-5.108	1.00	0.00	C
ATOM	583	O	PRO A	42154.968	13.383	-6.036	1.00	0.00	O

ATOM	584	CB	PRO A	42155.942	10.545	-4.744	1.00	0.00	C
ATOM	585	CG	PRO A	42154.913	9.489	-4.534	1.00	0.00	C
ATOM	586	CD	PRO A	42153.589	10.167	-4.733	1.00	0.00	C
ATOM	587	HA	PRO A	42155.610	12.021	-3.215	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.187	10.656	-5.791	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.839	10.341	-4.178	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.044	8.698	-5.257	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.987	9.099	-3.530	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.303	10.138	-5.775	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.831	9.706	-4.117	1.00	0.00	H
ATOM	594	N	PRO A	43156.851	13.631	-4.826	1.00	0.00	N
ATOM	595	CA	PRO A	43157.345	14.777	-5.595	1.00	0.00	C
ATOM	596	C	PRO A	43157.832	14.376	-6.981	1.00	0.00	C
ATOM	597	O	PRO A	43159.014	14.095	-7.178	1.00	0.00	O
ATOM	598	CB	PRO A	43158.510	15.294	-4.751	1.00	0.00	C
ATOM	599	CG	PRO A	43158.989	14.102	-3.998	1.00	0.00	C
ATOM	600	CD	PRO A	43157.772	13.257	-3.736	1.00	0.00	C
ATOM	601	HA	PRO A	43156.592	15.546	-5.686	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.278	15.687	-5.401	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.161	16.068	-4.084	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.704	13.554	-4.595	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.438	14.412	-3.066	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.024	12.208	-3.788	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.347	13.497	-2.773	1.00	0.00	H
ATOM	608	N	GLY A	44156.914	14.350	-7.941	1.00	0.00	N
ATOM	609	CA	GLY A	44157.273	13.982	-9.297	1.00	0.00	C
ATOM	610	C	GLY A	44156.084	13.491	-10.098	1.00	0.00	C
ATOM	611	O	GLY A	44155.844	13.957	-11.212	1.00	0.00	O
ATOM	612	H	GLY A	44155.987	14.583	-7.727	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.695	14.843	-9.792	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.016	13.199	-9.262	1.00	0.00	H



ATOM	615	N	LEU A	45155.339	12.549	-9.532	1.00	0.00	N
ATOM	616	CA	LEU A	45154.169	11.997	-10.204	1.00	0.00	C
ATOM	617	C	LEU A	45152.914	12.208	-9.366	1.00	0.00	C
ATOM	618	O	LEU A	45152.764	11.612	-8.299	1.00	0.00	O
ATOM	619	CB	LEU A	45154.369	10.506	-10.478	1.00	0.00	C
ATOM	620	CG	LEU A	45154.847	9.684	-9.278	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.479	8.217	-9.453	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.350	9.845	-9.088	1.00	0.00	C
ATOM	623	H	LEU A	45155.580	12.218	-8.639	1.00	0.00	H
ATOM	624	HA	LEU A	45154.051	12.515	-11.144	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.430	10.094	-10.818	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.096	10.401	-11.270	1.00	0.00	H
ATOM	627	HG	LEU A	45154.357	10.046	-8.387	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.735	7.943	-8.719	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.359	7.605	-9.316	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.083	8.059	-10.445	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.708	10.657	-9.704	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.849	8.930	-9.373	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.560	10.060	-8.051	1.00	0.00	H
ATOM	634	N	ASN A	46152.013	13.054	-9.852	1.00	0.00	N
ATOM	635	CA	ASN A	46150.774	13.330	-9.134	1.00	0.00	C
ATOM	636	C	ASN A	46149.823	12.143	-9.238	1.00	0.00	C
ATOM	637	O	ASN A	46149.247	11.884	-10.295	1.00	0.00	O
ATOM	638	CB	ASN A	46150.109	14.588	-9.696	1.00	0.00	C
ATOM	639	CG	ASN A	46148.854	14.969	-8.936	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.885	14.212	-8.894	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.867	16.151	-8.329	1.00	0.00	N
ATOM	642	H	ASN A	46152.183	13.500	-10.707	1.00	0.00	H
ATOM	643	HA	ASN A	46151.019	13.493	-8.096	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.804	15.411	-9.641	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.843	14.415	-10.730	1.00	0.00	H

ATOM	646	1HD2	ASN	A	46149.674	16.702	-8.407	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46148.069	16.424	-7.831	1.00	0.00	H
ATOM	648	N	GLU	A	47149.664	11.426	-8.131	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.783	10.265	-8.089	1.00	0.00	C
ATOM	650	C	GLU	A	47148.535	9.827	-6.650	1.00	0.00	C
ATOM	651	O	GLU	A	47149.473	9.496	-5.924	1.00	0.00	O
ATOM	652	CB	GLU	A	47149.384	9.107	-8.891	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.894	8.984	-8.752	1.00	0.00	C
ATOM	654	CD	GLU	A	47151.508	8.112	-9.829	1.00	0.00	C
ATOM	655	OE1	GLU	A	47151.735	8.621	-10.948	1.00	0.00	O
ATOM	656	OE2	GLU	A	47151.761	6.920	-9.557	1.00	0.00	O
ATOM	657	H	GLU	A	47150.151	11.684	-7.323	1.00	0.00	H
ATOM	658	HA	GLU	A	47147.841	10.548	-8.533	1.00	0.00	H
ATOM	659	1HB	GLU	A	47148.938	8.183	-8.556	1.00	0.00	H
ATOM	660	2HB	GLU	A	47149.152	9.251	-9.936	1.00	0.00	H
ATOM	661	1HG	GLU	A	47151.331	9.968	-8.815	1.00	0.00	H
ATOM	662	2HG	GLU	A	47151.122	8.552	-7.788	1.00	0.00	H
ATOM	663	N	VAL	A	48147.271	9.818	-6.242	1.00	0.00	N
ATOM	664	CA	VAL	A	48146.916	9.408	-4.890	1.00	0.00	C
ATOM	665	C	VAL	A	48147.256	7.940	-4.667	1.00	0.00	C
ATOM	666	O	VAL	A	48146.521	7.050	-5.094	1.00	0.00	O
ATOM	667	CB	VAL	A	48145.417	9.627	-4.610	1.00	0.00	C
ATOM	668	CG1	VAL	A	48145.108	9.388	-3.139	1.00	0.00	C
ATOM	669	CG2	VAL	A	48144.992	11.025	-5.031	1.00	0.00	C
ATOM	670	H	VAL	A	48146.563	10.087	-6.865	1.00	0.00	H
ATOM	671	HA	VAL	A	48147.485	10.010	-4.197	1.00	0.00	H
ATOM	672	HB	VAL	A	48144.854	8.911	-5.192	1.00	0.00	H
ATOM	673	1HG1	VAL	A	48145.930	9.745	-2.536	1.00	0.00	H
ATOM	674	2HG1	VAL	A	48144.967	8.332	-2.967	1.00	0.00	H
ATOM	675	3HG1	VAL	A	48144.208	9.921	-2.869	1.00	0.00	H
ATOM	676	1HG2	VAL	A	48145.845	11.687	-4.994	1.00	0.00	H

ATOM	677	2HG2	VAL A	48144.227	11.387	-4.361	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.604	10.994	-6.038	1.00	0.00	H
ATOM	679	N	LEU A	49148.379	7.692	-4.002	1.00	0.00	N
ATOM	680	CA	LEU A	49148.821	6.331	-3.729	1.00	0.00	C
ATOM	681	C	LEU A	49148.666	5.997	-2.251	1.00	0.00	C
ATOM	682	O	LEU A	49149.298	6.615	-1.394	1.00	0.00	O
ATOM	683	CB	LEU A	49150.279	6.151	-4.154	1.00	0.00	C
ATOM	684	CG	LEU A	49150.574	6.496	-5.614	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.003	6.995	-5.767	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.333	5.286	-6.505	1.00	0.00	C
ATOM	687	H	LEU A	49148.926	8.443	-3.689	1.00	0.00	H
ATOM	688	HA	LEU A	49148.202	5.660	-4.304	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.895	6.778	-3.526	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.556	5.121	-3.988	1.00	0.00	H
ATOM	691	HG	LEU A	49149.909	7.285	-5.934	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.628	6.533	-5.017	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.024	8.068	-5.641	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.370	6.741	-6.749	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.956	5.614	-7.463	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.610	4.634	-6.038	1.00	0.00	H
ATOM	697	3HD2	LEU A	49151.261	4.752	-6.648	1.00	0.00	H
ATOM	698	N	ALAA	50147.820	5.017	-1.958	1.00	0.00	N
ATOM	699	CA	ALAA	50147.584	4.604	-0.582	1.00	0.00	C
ATOM	700	C	ALAA	50148.522	3.470	-0.181	1.00	0.00	C
ATOM	701	O	ALAA	50148.448	2.368	-0.726	1.00	0.00	O
ATOM	702	CB	ALAA	50146.134	4.182	-0.398	1.00	0.00	C
ATOM	703	H	ALAA	50147.344	4.561	-2.683	1.00	0.00	H
ATOM	704	HA	ALAA	50147.771	5.456	0.055	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.082	3.370	0.313	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.730	3.857	-1.345	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.559	5.019	-0.030	1.00	0.00	H

ATOM	708	N	GLY A	51149.405	3.747	0.773	1.00	0.00	N
ATOM	709	CA	GLY A	51150.345	2.741	1.230	1.00	0.00	C
ATOM	710	C	GLY A	51149.671	1.632	2.013	1.00	0.00	C
ATOM	711	O	GLY A	51149.179	1.854	3.120	1.00	0.00	O
ATOM	712	H	GLY A	51149.417	4.643	1.171	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.839	2.311	0.372	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.084	3.214	1.860	1.00	0.00	H
ATOM	715	N	LEU A	52149.648	0.434	1.439	1.00	0.00	N
ATOM	716	CA	LEU A	52149.030	-0.714	2.091	1.00	0.00	C
ATOM	717	C	LEU A	52150.084	-1.612	2.730	1.00	0.00	C
ATOM	718	O	LEU A	52151.068	-1.983	2.091	1.00	0.00	O
ATOM	719	CB	LEU A	52148.203	-1.516	1.084	1.00	0.00	C
ATOM	720	CG	LEU A	52146.961	-0.800	0.552	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.446	-1.487	-0.703	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.877	-0.751	1.619	1.00	0.00	C
ATOM	723	H	LEU A	52150.057	0.319	0.556	1.00	0.00	H
ATOM	724	HA	LEU A	52148.375	-0.342	2.865	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.838	-1.763	0.245	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.888	-2.433	1.558	1.00	0.00	H
ATOM	727	HG	LEU A	52147.221	0.216	0.293	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.683	-0.874	-1.162	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.027	-2.448	-0.441	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.261	-1.627	-1.397	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.189	0.050	1.397	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.330	-0.582	2.584	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.343	-1.691	1.633	1.00	0.00	H
ATOM	734	N	GLU A	53149.872	-1.957	3.997	1.00	0.00	N
ATOM	735	CA	GLU A	53150.804	-2.811	4.723	1.00	0.00	C
ATOM	736	C	GLU A	53150.332	-4.261	4.715	1.00	0.00	C
ATOM	737	O	GLU A	53149.326	-4.600	5.337	1.00	0.00	O
ATOM	738	CB	GLU A	53150.960	-2.320	6.164	1.00	0.00	C

ATOM	739	CG	GLU A	53151.942	-3.142	6.984	1.00	0.00	C
ATOM	740	CD	GLU A	53151.412	-3.483	8.361	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.983	-2.556	9.079	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.424	-4.679	8.723	1.00	0.00	O
ATOM	743	H	GLU A	53149.068	-1.629	4.453	1.00	0.00	H
ATOM	744	HA	GLU A	53151.761	-2.754	4.228	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.304	-1.297	6.149	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.996	-2.360	6.652	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.150	-4.062	6.456	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.857	-2.578	7.095	1.00	0.00	H
ATOM	749	N	LEU A	54151.066	-5.113	4.006	1.00	0.00	N
ATOM	750	CA	LEU A	54150.722	-6.527	3.917	1.00	0.00	C
ATOM	751	C	LEU A	54151.001	-7.240	5.237	1.00	0.00	C
ATOM	752	O	LEU A	54152.072	-7.083	5.824	1.00	0.00	O
ATOM	753	CB	LEU A	54151.510	-7.195	2.788	1.00	0.00	C
ATOM	754	CG	LEU A	54151.446	-6.474	1.440	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.653	-6.828	0.587	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.156	-6.822	0.713	1.00	0.00	C
ATOM	757	H	LEU A	54151.857	-4.782	3.532	1.00	0.00	H
ATOM	758	HA	LEU A	54149.668	-6.598	3.699	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.546	-7.258	3.089	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.129	-8.195	2.654	1.00	0.00	H
ATOM	761	HG	LEU A	54151.458	-5.407	1.609	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.792	-7.899	0.586	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.533	-6.352	0.993	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.493	-6.485	-0.425	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.838	-5.977	0.118	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.389	-7.064	1.434	1.00	0.00	H
ATOM	767	3HD2	LEU A	54150.324	-7.672	0.068	1.00	0.00	H
ATOM	768	N	GLU A	55150.030	-8.020	5.699	1.00	0.00	N
ATOM	769	CA	GLU A	55150.170	-8.755	6.951	1.00	0.00	C

ATOM	770	C	GLU A	55151.279	-9.798	6.849	1.00	0.00	C
ATOM	771	O	GLU A	55151.960	-10.092	7.832	1.00	0.00	O
ATOM	772	CB	GLU A	55148.849	-9.435	7.317	1.00	0.00	C
ATOM	773	CG	GLU A	55147.932	-8.564	8.162	1.00	0.00	C
ATOM	774	CD	GLU A	55147.895	-8.998	9.615	1.00	0.00	C
ATOM	775	OE1	GLU A	55147.569	-10.174	9.877	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.192	-8.159	10.492	1.00	0.00	O
ATOM	777	H	GLU A	55149.199	-8.103	5.186	1.00	0.00	H
ATOM	778	HA	GLU A	55150.427	-8.047	7.724	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.326	-9.692	6.408	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.062	-10.337	7.868	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.282	-7.544	8.117	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.932	-8.620	7.759	1.00	0.00	H
ATOM	783	N	ASP A	56151.454	-10.353	5.655	1.00	0.00	N
ATOM	784	CA	ASP A	56152.481	-11.364	5.426	1.00	0.00	C
ATOM	785	C	ASP A	56153.824	-10.713	5.113	1.00	0.00	C
ATOM	786	O	ASP A	56153.897	-9.750	4.351	1.00	0.00	O
ATOM	787	CB	ASP A	56152.070	-12.287	4.279	1.00	0.00	C
ATOM	788	CG	ASP A	56150.961	-13.243	4.674	1.00	0.00	C
ATOM	789	OD1	ASP A	56150.877	-13.592	5.871	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.177	-13.642	3.787	1.00	0.00	O
ATOM	791	H	ASP A	56150.880	-10.078	4.910	1.00	0.00	H
ATOM	792	HA	ASP A	56152.578	-11.948	6.329	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.724	-11.689	3.448	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.927	-12.867	3.966	1.00	0.00	H
ATOM	795	N	GLU A	57154.887	-11.245	5.710	1.00	0.00	N
ATOM	796	CA	GLU A	57156.229	-10.716	5.495	1.00	0.00	C
ATOM	797	C	GLU A	57156.867	-11.340	4.258	1.00	0.00	C
ATOM	798	O	GLU A	57157.811	-12.126	4.362	1.00	0.00	O
ATOM	799	CB	GLU A	57157.103	-10.974	6.724	1.00	0.00	C
ATOM	800	CG	GLU A	57157.075	-9.844	7.739	1.00	0.00	C

ATOM	801	CD	GLU A	57158.336	-9.784	8.580	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.432	-9.656	7.997	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.225	-9.864	9.822	1.00	0.00	O
ATOM	804	H	GLU A	57154.765	-12.012	6.309	1.00	0.00	H
ATOM	805	HA	GLU A	57156.143	-9.650	5.343	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.762	-11.876	7.212	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.124	-11.114	6.402	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.967	-8.907	7.214	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.229	-9.987	8.395	1.00	0.00	H
ATOM	810	N	CYS A	58156.349	-10.983	3.088	1.00	0.00	N
ATOM	811	CA	CYS A	58156.869	-11.508	1.830	1.00	0.00	C
ATOM	812	C	CYS A	58158.107	-10.734	1.389	1.00	0.00	C
ATOM	813	O	CYS A	58158.053	-9.521	1.183	1.00	0.00	O
ATOM	814	CB	CYS A	58155.795	-11.438	0.743	1.00	0.00	C
ATOM	815	SG	CYS A	58155.816	-12.835	-0.405	1.00	0.00	S
ATOM	816	H	CYS A	58155.599	-10.353	3.069	1.00	0.00	H
ATOM	817	HA	CYS A	58157.141	-12.540	1.989	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.822	-11.412	1.209	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.937	-10.536	0.165	1.00	0.00	H
ATOM	820	HG	CYS A	58156.542	-13.413	-0.156	1.00	0.00	H
ATOM	821	N	ALA A	59159.222	-11.443	1.246	1.00	0.00	N
ATOM	822	CA	ALA A	59160.474	-10.823	0.830	1.00	0.00	C
ATOM	823	C	ALA A	59160.347	-10.208	-0.559	1.00	0.00	C
ATOM	824	O	ALA A	59160.243	-10.921	-1.558	1.00	0.00	O
ATOM	825	CB	ALA A	59161.602	-11.842	0.857	1.00	0.00	C
ATOM	826	H	ALA A	59159.202	-12.406	1.425	1.00	0.00	H
ATOM	827	HA	ALA A	59160.710	-10.041	1.538	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.800	-12.134	1.878	1.00	0.00	H
ATOM	829	2HB	ALA A	59162.492	-11.406	0.428	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.315	-12.712	0.284	1.00	0.00	H
ATOM	831	N	GLY A	60160.353	-8.880	-0.616	1.00	0.00	N

ATOM	832	CA	GLY A	60160.238	-8.192	-1.888	1.00	0.00	C
ATOM	833	C	GLY A	60159.723	-6.774	-1.737	1.00	0.00	C
ATOM	834	O	GLY A	60160.028	-5.905	-2.553	1.00	0.00	O
ATOM	835	H	GLY A	60160.438	-8.363	0.212	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.210	-8.161	-2.359	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.560	-8.743	-2.523	1.00	0.00	H
ATOM	838	N	CYS A	61158.940	-6.540	-0.689	1.00	0.00	N
ATOM	839	CA	CYS A	61158.382	-5.218	-0.432	1.00	0.00	C
ATOM	840	C	CYS A	61159.349	-4.367	0.384	1.00	0.00	C
ATOM	841	O	CYS A	61160.444	-4.813	0.728	1.00	0.00	O
ATOM	842	CB	CYS A	61157.046	-5.340	0.305	1.00	0.00	C
ATOM	843	SG	CYS A	61155.819	-6.353	-0.555	1.00	0.00	S
ATOM	844	H	CYS A	61158.733	-7.274	-0.073	1.00	0.00	H
ATOM	845	HA	CYS A	61158.214	-4.739	-1.384	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.217	-5.785	1.273	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.625	-4.354	0.436	1.00	0.00	H
ATOM	848	HG	CYS A	61154.998	-5.857	-0.590	1.00	0.00	H
ATOM	849	N	THR A	62158.939	-3.141	0.690	1.00	0.00	N
ATOM	850	CA	THR A	62159.769	-2.228	1.465	1.00	0.00	C
ATOM	851	C	THR A	62159.315	-2.182	2.920	1.00	0.00	C
ATOM	852	O	THR A	62158.402	-2.904	3.318	1.00	0.00	O
ATOM	853	CB	THR A	62159.722	-0.823	0.860	1.00	0.00	C
ATOM	854	OG1	THR A	62158.393	-0.336	0.828	1.00	0.00	O
ATOM	855	CG2	THR A	62160.268	-0.762	-0.551	1.00	0.00	C
ATOM	856	H	THR A	62158.055	-2.844	0.386	1.00	0.00	H
ATOM	857	HA	THR A	62160.785	-2.592	1.429	1.00	0.00	H
ATOM	858	HB	THR A	62160.313	-0.159	1.472	1.00	0.00	H
ATOM	859	HG1	THR A	62157.985	-0.460	1.688	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.024	-1.522	-0.678	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.702	0.210	-0.727	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.466	-0.930	-1.254	1.00	0.00	H



ATOM	863	N	ASP A	63159.959	-1.327	3.709	1.00	0.00	N
ATOM	864	CA	ASP A	63159.621	-1.186	5.121	1.00	0.00	C
ATOM	865	C	ASP A	63158.989	0.174	5.394	1.00	0.00	C
ATOM	866	O	ASP A	63159.144	0.735	6.479	1.00	0.00	O
ATOM	867	CB	ASP A	63160.870	-1.365	5.985	1.00	0.00	C
ATOM	868	CG	ASP A	63161.964	-0.376	5.632	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.797	0.826	5.928	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.989	-0.804	5.059	1.00	0.00	O
ATOM	871	H	ASP A	63160.679	-0.778	3.333	1.00	0.00	H
ATOM	872	HA	ASP A	63158.908	-1.958	5.370	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.605	-1.223	7.023	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.255	-2.364	5.849	1.00	0.00	H
ATOM	875	N	GLY A	64158.275	0.699	4.404	1.00	0.00	N
ATOM	876	CA	GLY A	64157.630	1.990	4.558	1.00	0.00	C
ATOM	877	C	GLY A	64158.349	3.092	3.805	1.00	0.00	C
ATOM	878	O	GLY A	64158.370	4.242	4.245	1.00	0.00	O
ATOM	879	H	GLY A	64158.187	0.207	3.561	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.617	1.919	4.190	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.603	2.243	5.607	1.00	0.00	H
ATOM	882	N	THR A	65158.940	2.740	2.668	1.00	0.00	N
ATOM	883	CA	THR A	65159.664	3.708	1.852	1.00	0.00	C
ATOM	884	C	THR A	65159.260	3.594	0.385	1.00	0.00	C
ATOM	885	O	THR A	65159.441	2.549	-0.239	1.00	0.00	O
ATOM	886	CB	THR A	65161.172	3.502	1.996	1.00	0.00	C
ATOM	887	OG1	THR A	65161.477	2.126	2.147	1.00	0.00	O
ATOM	888	CG2	THR A	65161.767	4.236	3.177	1.00	0.00	C
ATOM	889	H	THR A	65158.888	1.808	2.369	1.00	0.00	H
ATOM	890	HA	THR A	65159.410	4.696	2.207	1.00	0.00	H
ATOM	891	HB	THR A	65161.661	3.861	1.101	1.00	0.00	H
ATOM	892	HG1	THR A	65161.207	1.650	1.359	1.00	0.00	H
ATOM	893	1HG2	THR A	65162.809	4.447	2.982	1.00	0.00	H

ATOM	894	2HG2	THR	A	65161.683	3.623	4.062	1.00	0.00	H
ATOM	895	3HG2	THR	A	65161.234	5.163	3.329	1.00	0.00	H
ATOM	896	N	PHE	A	66158.714	4.677	-0.159	1.00	0.00	N
ATOM	897	CA	PHE	A	66158.287	4.699	-1.553	1.00	0.00	C
ATOM	898	C	PHE	A	66159.157	5.645	-2.375	1.00	0.00	C
ATOM	899	O	PHE	A	66159.050	6.865	-2.253	1.00	0.00	O
ATOM	900	CB	PHE	A	66156.820	5.122	-1.652	1.00	0.00	C
ATOM	901	CG	PHE	A	66156.213	4.872	-3.003	1.00	0.00	C
ATOM	902	CD1	PHE	A	66156.173	3.592	-3.534	1.00	0.00	C
ATOM	903	CD2	PHE	A	66155.682	5.917	-3.743	1.00	0.00	C
ATOM	904	CE1	PHE	A	66155.615	3.359	-4.776	1.00	0.00	C
ATOM	905	CE2	PHE	A	66155.123	5.690	-4.987	1.00	0.00	C
ATOM	906	CZ	PHE	A	66155.089	4.409	-5.503	1.00	0.00	C
ATOM	907	H	PHE	A	66158.597	5.480	0.389	1.00	0.00	H
ATOM	908	HA	PHE	A	66158.391	3.699	-1.948	1.00	0.00	H
ATOM	909	1HB	PHE	A	66156.244	4.573	-0.923	1.00	0.00	H
ATOM	910	2HB	PHE	A	66156.743	6.179	-1.443	1.00	0.00	H
ATOM	911	HD1	PHE	A	66156.583	2.770	-2.965	1.00	0.00	H
ATOM	912	HD2	PHE	A	66155.708	6.918	-3.340	1.00	0.00	H
ATOM	913	HE1	PHE	A	66155.589	2.357	-5.178	1.00	0.00	H
ATOM	914	HE2	PHE	A	66154.712	6.513	-5.553	1.00	0.00	H
ATOM	915	HZ	PHE	A	66154.652	4.230	-6.475	1.00	0.00	H
ATOM	916	N	ARG	A	67160.018	5.073	-3.210	1.00	0.00	N
ATOM	917	CA	ARG	A	67160.908	5.866	-4.052	1.00	0.00	C
ATOM	918	C	ARG	A	67161.832	6.733	-3.202	1.00	0.00	C
ATOM	919	O	ARG	A	67162.115	7.879	-3.548	1.00	0.00	O
ATOM	920	CB	ARG	A	67160.094	6.745	-5.003	1.00	0.00	C
ATOM	921	CG	ARG	A	67158.971	6.002	-5.708	1.00	0.00	C
ATOM	922	CD	ARG	A	67158.778	6.502	-7.131	1.00	0.00	C
ATOM	923	NE	ARG	A	67158.252	5.461	-8.011	1.00	0.00	N
ATOM	924	CZ	ARG	A	67158.319	5.509	-9.339	1.00	0.00	C

ATOM	925	NH1	ARG A	67158.886	6.546	-9.944	1.00	0.00	N
ATOM	926	NH2	ARG A	67157.815	4.520	-10.064	1.00	0.00	N
ATOM	927	H	ARG A	67160.057	4.095	-3.262	1.00	0.00	H
ATOM	928	HA	ARG A	67161.509	5.182	-4.633	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.660	7.558	-4.440	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.756	7.151	-5.754	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.210	4.950	-5.737	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.053	6.149	-5.157	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.087	7.331	-7.117	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.732	6.836	-7.513	1.00	0.00	H
ATOM	935	HE	ARG A	67157.828	4.684	-7.590	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.267	7.295	-9.404	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.933	6.577	-10.943	1.00	0.00	H
ATOM	938	1HH2	ARG A	67157.388	3.737	-9.614	1.00	0.00	H
ATOM	939	2HH2	ARG A	67157.865	4.557	-11.063	1.00	0.00	H
ATOM	940	N	GLY A	68162.297	6.177	-2.088	1.00	0.00	N
ATOM	941	CA	GLY A	68163.183	6.913	-1.207	1.00	0.00	C
ATOM	942	C	GLY A	68162.472	8.035	-0.476	1.00	0.00	C
ATOM	943	O	GLY A	68163.086	9.043	-0.124	1.00	0.00	O
ATOM	944	H	GLY A	68162.037	5.259	-1.863	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.599	6.231	-0.480	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.988	7.333	-1.792	1.00	0.00	H
ATOM	947	N	THR A	69161.174	7.861	-0.247	1.00	0.00	N
ATOM	948	CA	THR A	69160.378	8.867	0.445	1.00	0.00	C
ATOM	949	C	THR A	69159.605	8.245	1.604	1.00	0.00	C
ATOM	950	O	THR A	69158.505	7.724	1.420	1.00	0.00	O
ATOM	951	CB	THR A	69159.408	9.539	-0.528	1.00	0.00	C
ATOM	952	OG1	THR A	69160.027	9.757	-1.782	1.00	0.00	O
ATOM	953	CG2	THR A	69158.891	10.872	-0.032	1.00	0.00	C
ATOM	954	H	THR A	69160.742	7.036	-0.553	1.00	0.00	H
ATOM	955	HA	THR A	69161.054	9.612	0.838	1.00	0.00	H

ATOM	956	HB	THR A	69158.557	8.890	-0.677	1.00	0.00	H
ATOM	957	HG1	THR A	69159.364	10.012	-2.427	1.00	0.00	H
ATOM	958	1HG2	THR A	69158.356	11.368	-0.828	1.00	0.00	H
ATOM	959	2HG2	THR A	69159.722	11.486	0.281	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.227	10.712	0.804	1.00	0.00	H
ATOM	961	N	ARG A	70160.189	8.301	2.796	1.00	0.00	N
ATOM	962	CA	ARG A	70159.554	7.743	3.985	1.00	0.00	C
ATOM	963	C	ARG A	70158.220	8.426	4.262	1.00	0.00	C
ATOM	964	O	ARG A	70158.126	9.654	4.255	1.00	0.00	O
ATOM	965	CB	ARG A	70160.476	7.888	5.198	1.00	0.00	C
ATOM	966	CG	ARG A	70159.901	7.294	6.472	1.00	0.00	C
ATOM	967	CD	ARG A	70160.291	8.113	7.693	1.00	0.00	C
ATOM	968	NE	ARG A	70161.632	7.783	8.169	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.308	8.518	9.049	1.00	0.00	C
ATOM	970	NH1	ARG A	70161.773	9.625	9.550	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.523	8.145	9.429	1.00	0.00	N
ATOM	972	H	ARG A	70161.067	8.729	2.880	1.00	0.00	H
ATOM	973	HA	ARG A	70159.377	6.693	3.803	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.412	7.393	4.985	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.665	8.938	5.367	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.824	7.273	6.395	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.276	6.288	6.591	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.259	9.161	7.433	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.580	7.918	8.483	1.00	0.00	H
ATOM	980	HE	ARG A	70162.051	6.971	7.815	1.00	0.00	H
ATOM	981	1HH1	ARG A	70160.858	9.910	9.268	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.286	10.173	10.210	1.00	0.00	H
ATOM	983	1HH2	ARG A	70163.931	7.313	9.054	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.031	8.698	10.089	1.00	0.00	H
ATOM	985	N	TYR A	71157.189	7.624	4.505	1.00	0.00	N
ATOM	986	CA	TYR A	71155.858	8.151	4.785	1.00	0.00	C

ATOM	987	C	TYR A	71155.368	7.691	6.154	1.00	0.00	C
ATOM	988	O	TYR A	71154.789	8.471	6.911	1.00	0.00	O
ATOM	989	CB	TYR A	71154.872	7.707	3.703	1.00	0.00	C
ATOM	990	CG	TYR A	71155.088	8.391	2.370	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.239	9.770	2.293	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.141	7.658	1.192	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.435	10.399	1.078	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.337	8.279	-0.026	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.484	9.649	-0.078	1.00	0.00	C
ATOM	996	OH	TYR A	71155.680	10.271	-1.290	1.00	0.00	O
ATOM	997	H	TYR A	71157.326	6.653	4.496	1.00	0.00	H
ATOM	998	HA	TYR A	71155.921	9.229	4.782	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.973	6.643	3.548	1.00	0.00	H
ATOM	1000	2HB	TYR A	71153.867	7.926	4.030	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.200	10.354	3.200	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.024	6.585	1.236	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.551	11.472	1.037	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.375	7.691	-0.932	1.00	0.00	H
ATOM	1005	HH	TYR A	71154.899	10.159	-1.837	1.00	0.00	H
ATOM	1006	N	PHE A	72155.602	6.420	6.465	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.185	5.857	7.743	1.00	0.00	C
ATOM	1008	C	PHE A	72156.131	4.743	8.181	1.00	0.00	C
ATOM	1009	O	PHE A	72156.903	4.218	7.379	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.757	5.319	7.645	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.573	4.298	6.558	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.332	4.693	5.252	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.642	2.944	6.844	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.162	3.757	4.251	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.474	2.002	5.846	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.234	2.409	4.548	1.00	0.00	C
ATOM	1017	H	PHE A	72156.068	5.848	5.820	1.00	0.00	H

ATOM	1018	HA	PHE A	72155.213	6.647	8.479	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.488	4.857	8.583	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.083	6.140	7.448	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.277	5.746	5.019	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.830	2.625	7.858	1.00	0.00	H
ATOM	1023	HE1	PHE A	72152.974	4.076	3.237	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.530	0.949	6.081	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.101	1.675	3.767	1.00	0.00	H
ATOM	1026	N	THR A	73156.066	4.389	9.461	1.00	0.00	N
ATOM	1027	CA	THR A	73156.917	3.338	10.006	1.00	0.00	C
ATOM	1028	C	THR A	73156.150	2.025	10.130	1.00	0.00	C
ATOM	1029	O	THR A	73155.140	1.948	10.830	1.00	0.00	O
ATOM	1030	CB	THR A	73157.464	3.753	11.372	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.362	2.777	11.870	1.00	0.00	O
ATOM	1032	CG2	THR A	73156.384	3.954	12.413	1.00	0.00	C
ATOM	1033	H	THR A	73155.431	4.845	10.052	1.00	0.00	H
ATOM	1034	HA	THR A	73157.744	3.194	9.326	1.00	0.00	H
ATOM	1035	HB	THR A	73158.000	4.685	11.266	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.867	3.147	12.599	1.00	0.00	H
ATOM	1037	1HG2	THR A	73155.632	4.627	12.027	1.00	0.00	H
ATOM	1038	2HG2	THR A	73156.820	4.376	13.307	1.00	0.00	H
ATOM	1039	3HG2	THR A	73155.928	3.004	12.649	1.00	0.00	H
ATOM	1040	N	CYS A	74156.636	0.994	9.447	1.00	0.00	N
ATOM	1041	CA	CYS A	74155.997	-0.316	9.480	1.00	0.00	C
ATOM	1042	C	CYS A	74157.038	-1.430	9.449	1.00	0.00	C
ATOM	1043	O	CYS A	74158.223	-1.180	9.227	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.035	-0.468	8.300	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.348	0.085	8.647	1.00	0.00	S
ATOM	1046	H	CYS A	74157.445	1.118	8.906	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.437	-0.388	10.401	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.404	0.110	7.467	1.00	0.00	H

ATOM	1049	2HB	CYS A	74154.988	-1.510	8.016	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.401	0.908	9.138	1.00	0.00	H
ATOM	1051	N	ALA A	75156.588	-2.660	9.672	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.480	-3.812	9.669	1.00	0.00	C
ATOM	1053	C	ALA A	75158.153	-3.983	8.311	1.00	0.00	C
ATOM	1054	O	ALA A	75157.610	-3.575	7.284	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.716	-5.072	10.045	1.00	0.00	C
ATOM	1056	H	ALA A	75155.632	-2.796	9.844	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.242	-3.646	10.418	1.00	0.00	H
ATOM	1058	1HB	ALA A	75157.123	-5.915	9.504	1.00	0.00	H
ATOM	1059	2HB	ALA A	75155.673	-4.950	9.789	1.00	0.00	H
ATOM	1060	3HB	ALA A	75156.808	-5.247	11.106	1.00	0.00	H
ATOM	1061	N	LEU A	76159.336	-4.586	8.313	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.083	-4.810	7.082	1.00	0.00	C
ATOM	1063	C	LEU A	76159.374	-5.828	6.194	1.00	0.00	C
ATOM	1064	O	LEU A	76158.801	-6.801	6.683	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.499	-5.293	7.399	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.527	-4.183	7.624	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.542	-4.599	8.676	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.224	-3.830	6.317	1.00	0.00	C
ATOM	1069	H	LEU A	76159.717	-4.889	9.165	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.142	-3.870	6.555	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.458	-5.903	8.290	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.840	-5.907	6.579	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.020	-3.298	7.981	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.624	-5.676	8.690	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.221	-4.250	9.645	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.504	-4.168	8.439	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.411	-2.767	6.285	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.593	-4.110	5.487	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.160	-4.363	6.254	1.00	0.00	H

ATOM	1080	N	LYS A	77159.418	-5.596	4.885	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.781	-6.493	3.928	1.00	0.00	C
ATOM	1082	C	LYS A	77157.274	-6.555	4.159	1.00	0.00	C
ATOM	1083	O	LYS A	77156.666	-7.622	4.071	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.384	-7.895	4.030	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.904	-7.909	3.988	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.429	-7.427	2.644	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.780	-6.746	2.786	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.531	-6.729	1.501	1.00	0.00	N
ATOM	1089	H	LYS A	77159.891	-4.803	4.556	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.964	-6.103	2.937	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.067	-8.344	4.960	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.017	-8.493	3.208	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.281	-7.260	4.764	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.249	-8.917	4.159	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.531	-8.274	1.984	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.724	-6.725	2.224	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.624	-5.730	3.116	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.360	-7.279	3.526	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.321	-7.587	0.952	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.554	-6.690	1.685	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.260	-5.896	0.940	1.00	0.00	H
ATOM	1102	N	LYS A	78156.678	-5.405	4.456	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.242	-5.330	4.698	1.00	0.00	C
ATOM	1104	C	LYS A	78154.699	-3.953	4.332	1.00	0.00	C
ATOM	1105	O	LYS A	78153.843	-3.405	5.028	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.935	-5.640	6.166	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.495	-6.973	6.635	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.154	-7.238	8.094	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.009	-8.229	8.228	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.330	-8.117	9.549	1.00	0.00	N



ATOM	1111	H	LYS A	78157.215	-4.588	4.511	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.761	-6.070	4.077	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.357	-4.859	6.782	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.865	-5.654	6.302	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.075	-7.762	6.029	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.568	-6.962	6.522	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.025	-7.640	8.589	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.869	-6.307	8.561	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.289	-8.036	7.447	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.401	-9.230	8.117	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78154.026	-8.210	10.317	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.618	-8.867	9.649	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.859	-7.194	9.632	1.00	0.00	H
ATOM	1124	N	ALAA	79155.202	-3.396	3.235	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.767	-2.084	2.776	1.00	0.00	C
ATOM	1126	C	ALAA	79154.653	-2.043	1.255	1.00	0.00	C
ATOM	1127	O	ALAA	79155.661	-2.028	0.548	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.726	-1.009	3.264	1.00	0.00	C
ATOM	1129	H	ALAA	79155.881	-3.882	2.722	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.795	-1.886	3.204	1.00	0.00	H
ATOM	1131	1HB	ALAA	79156.708	-1.437	3.397	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.374	-0.614	4.205	1.00	0.00	H
ATOM	1133	3HB	ALAA	79155.776	-0.212	2.535	1.00	0.00	H
ATOM	1134	N	LEU A	80153.421	-2.027	0.759	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.175	-1.988	-0.678	1.00	0.00	C
ATOM	1136	C	LEU A	80152.304	-0.792	-1.048	1.00	0.00	C
ATOM	1137	O	LEU A	80151.153	-0.696	-0.626	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.504	-3.285	-1.136	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.136	-3.336	-2.619	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.365	-3.626	-3.465	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.059	-4.382	-2.864	1.00	0.00	C

ATOM 1142 H LEU A 80152.657 -2.040 1.374 1.00 0.00 H  
 ATOM 1143 HA LEU A 80154.128 -1.893 -1.175 1.00 0.00 H  
 ATOM 1144 1HB LEU A 80153.173 -4.106 -0.923 1.00 0.00 H  
 ATOM 1145 2HB LEU A 80151.600 -3.421 -0.560 1.00 0.00 H  
 ATOM 1146 HG LEU A 80151.744 -2.374 -2.919 1.00 0.00 H  
 ATOM 1147 1HD1 LEU A 80154.197 -3.037 -3.105 1.00 0.00 H  
 ATOM 1148 2HD1 LEU A 80153.163 -3.372 -4.494 1.00 0.00 H  
 ATOM 1149 3HD1 LEU A 80153.612 -4.675 -3.394 1.00 0.00 H  
 ATOM 1150 1HD2 LEU A 80150.214 -4.186 -2.222 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80151.455 -5.364 -2.649 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80150.743 -4.338 -3.897 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.863 0.117 -1.841 1.00 0.00 N  
 ATOM 1154 CA PHE A 81152.138 1.308 -2.268 1.00 0.00 C  
 ATOM 1155 C PHE A 81151.403 1.057 -3.581 1.00 0.00 C  
 ATOM 1156 O PHE A 81151.916 0.377 -4.471 1.00 0.00 O  
 ATOM 1157 CB PHE A 81153.099 2.487 -2.424 1.00 0.00 C  
 ATOM 1158 CG PHE A 81153.731 2.923 -1.133 1.00 0.00 C  
 ATOM 1159 CD1 PHE A 81153.185 3.960 -0.395 1.00 0.00 C  
 ATOM 1160 CD2 PHE A 81154.870 2.294 -0.657 1.00 0.00 C  
 ATOM 1161 CE1 PHE A 81153.763 4.364 0.794 1.00 0.00 C  
 ATOM 1162 CE2 PHE A 81155.454 2.693 0.531 1.00 0.00 C  
 ATOM 1163 CZ PHE A 81154.899 3.729 1.258 1.00 0.00 C  
 ATOM 1164 H PHE A 81153.785 -0.016 -2.145 1.00 0.00 H  
 ATOM 1165 HA PHE A 81151.413 1.545 -1.504 1.00 0.00 H  
 ATOM 1166 1HB PHE A 81153.892 2.208 -3.104 1.00 0.00 H  
 ATOM 1167 2HB PHE A 81152.561 3.330 -2.834 1.00 0.00 H  
 ATOM 1168 HD1 PHE A 81152.296 4.456 -0.756 1.00 0.00 H  
 ATOM 1169 HD2 PHE A 81155.305 1.485 -1.225 1.00 0.00 H  
 ATOM 1170 HE1 PHE A 81153.327 5.173 1.360 1.00 0.00 H  
 ATOM 1171 HE2 PHE A 81156.342 2.196 0.891 1.00 0.00 H  
 ATOM 1172 HZ PHE A 81155.353 4.042 2.186 1.00 0.00 H

ATOM 1173 N VAL A 82150.201 1.611 -3.696 1.00 0.00 N  
 ATOM 1174 CA VAL A 82149.396 1.450 -4.900 1.00 0.00 C  
 ATOM 1175 C VAL A 82148.446 2.627 -5.088 1.00 0.00 C  
 ATOM 1176 O VAL A 82148.236 3.421 -4.169 1.00 0.00 O  
 ATOM 1177 CB VAL A 82148.577 0.146 -4.859 1.00 0.00 C  
 ATOM 1178 CG1 VAL A 82149.478 -1.058 -5.087 1.00 0.00 C  
 ATOM 1179 CG2 VAL A 82147.835 0.023 -3.537 1.00 0.00 C  
 ATOM 1180 H VAL A 82149.847 2.143 -2.953 1.00 0.00 H  
 ATOM 1181 HA VAL A 82150.067 1.402 -5.746 1.00 0.00 H  
 ATOM 1182 HB VAL A 82147.848 0.177 -5.655 1.00 0.00 H  
 ATOM 1183 IHG1 VAL A 82149.960 -0.970 -6.049 1.00 0.00 H  
 ATOM 1184 2HG1 VAL A 82148.885 -1.960 -5.063 1.00 0.00 H  
 ATOM 1185 3HG1 VAL A 82150.228 -1.099 -4.311 1.00 0.00 H  
 ATOM 1186 IHG2 VAL A 82146.962 0.660 -3.553 1.00 0.00 H  
 ATOM 1187 2HG2 VAL A 82148.485 0.325 -2.729 1.00 0.00 H  
 ATOM 1188 3HG2 VAL A 82147.529 -1.002 -3.389 1.00 0.00 H  
 ATOM 1189 N LYS A 83147.874 2.735 -6.282 1.00 0.00 N  
 ATOM 1190 CA LYS A 83146.945 3.817 -6.590 1.00 0.00 C  
 ATOM 1191 C LYS A 83145.663 3.685 -5.774 1.00 0.00 C  
 ATOM 1192 O LYS A 83144.975 2.666 -5.840 1.00 0.00 O  
 ATOM 1193 CB LYS A 83146.615 3.825 -8.083 1.00 0.00 C  
 ATOM 1194 CG LYS A 83147.845 3.823 -8.977 1.00 0.00 C  
 ATOM 1195 CD LYS A 83147.465 3.755 -10.449 1.00 0.00 C  
 ATOM 1196 CE LYS A 83148.155 4.845 -11.255 1.00 0.00 C  
 ATOM 1197 NZ LYS A 83148.563 4.364 -12.604 1.00 0.00 N  
 ATOM 1198 H LYS A 83148.081 2.072 -6.973 1.00 0.00 H  
 ATOM 1199 HA LYS A 83147.425 4.749 -6.331 1.00 0.00 H  
 ATOM 1200 1HB LYS A 83146.027 2.949 -8.314 1.00 0.00 H  
 ATOM 1201 2HB LYS A 83146.034 4.707 -8.307 1.00 0.00 H  
 ATOM 1202 1HG LYS A 83148.406 4.728 -8.802 1.00 0.00 H  
 ATOM 1203 2HG LYS A 83148.454 2.966 -8.732 1.00 0.00 H

ATOM	1204	1HD	LYS A	83147.757	2.793	-10.842	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.396	3.874	-10.542	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.475	5.675	-11.370	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.033	5.171	-10.717	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.980	3.549	-12.884	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.561	4.075	-12.595	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.440	5.122	-13.306	1.00	0.00	H
ATOM	1211	N	LEU A	84145.351	4.722	-5.006	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.153	4.729	-4.174	1.00	0.00	C
ATOM	1213	C	LEU A	84142.897	4.559	-5.024	1.00	0.00	C
ATOM	1214	O	LEU A	84141.895	4.013	-4.564	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.074	6.032	-3.377	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.801	6.209	-2.545	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.854	5.339	-1.299	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.610	7.670	-2.171	1.00	0.00	C
ATOM	1219	H	LEU A	84145.941	5.504	-4.998	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.224	3.900	-3.486	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.923	6.075	-2.712	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.141	6.857	-4.071	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.949	5.898	-3.133	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.534	4.516	-1.464	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84141.868	4.954	-1.086	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.199	5.929	-0.463	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.604	7.821	-1.808	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.778	8.290	-3.039	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.315	7.939	-1.396	1.00	0.00	H
ATOM	1230	N	LYS A	85142.959	5.029	-6.266	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.824	4.929	-7.178	1.00	0.00	C
ATOM	1232	C	LYS A	85141.496	3.470	-7.482	1.00	0.00	C
ATOM	1233	O	LYS A	85140.349	3.130	-7.773	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.121	5.677	-8.479	1.00	0.00	C

ATOM	1235	CG	LYS A	85143.275	5.088	-9.271	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.806	6.071	-10.302	1.00	0.00	C
ATOM	1237	CE	LYS A	85143.372	5.694	-11.709	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.416	6.020	-12.719	1.00	0.00	N
ATOM	1239	H	LYS A	85143.785	5.454	-6.576	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.972	5.383	-6.697	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.238	5.658	-9.100	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.362	6.703	-8.242	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.072	4.830	-8.590	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.932	4.197	-9.779	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.430	7.057	-10.072	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.886	6.077	-10.257	1.00	0.00	H
ATOM	1247	1HE	LYS A	85143.174	4.634	-11.740	1.00	0.00	H
ATOM	1248	2HE	LYS A	85142.469	6.235	-11.950	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.971	6.290	-13.620	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.027	5.195	-12.881	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.003	6.811	-12.384	1.00	0.00	H
ATOM	1252	N	SER A	86142.509	2.612	-7.413	1.00	0.00	N
ATOM	1253	CA	SER A	86142.324	1.190	-7.681	1.00	0.00	C
ATOM	1254	C	SER A	86142.256	0.396	-6.381	1.00	0.00	C
ATOM	1255	O	SER A	86142.707	-0.748	-6.314	1.00	0.00	O
ATOM	1256	CB	SER A	86143.464	0.661	-8.554	1.00	0.00	C
ATOM	1257	OG	SER A	86143.828	1.607	-9.546	1.00	0.00	O
ATOM	1258	H	SER A	86143.401	2.941	-7.176	1.00	0.00	H
ATOM	1259	HA	SER A	86141.392	1.071	-8.211	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.326	0.460	-7.936	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.149	-0.249	-9.042	1.00	0.00	H
ATOM	1262	HG	SER A	86144.758	1.505	-9.761	1.00	0.00	H
ATOM	1263	N	CYS A	87141.689	1.011	-5.347	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.562	0.362	-4.047	1.00	0.00	C
ATOM	1265	C	CYS A	87140.106	0.024	-3.747	1.00	0.00	C

ATOM 1266 O CYS A 87139.191 0.546 -4.385 1.00 0.00 O  
 ATOM 1267 CB CYS A 87142.126 1.263 -2.946 1.00 0.00 C  
 ATOM 1268 SG CYS A 87143.933 1.305 -2.880 1.00 0.00 S  
 ATOM 1269 H CYS A 87141.349 1.923 -5.461 1.00 0.00 H  
 ATOM 1270 HA CYS A 87142.132 -0.554 -4.077 1.00 0.00 H  
 ATOM 1271 1HB CYS A 87141.781 2.273 -3.106 1.00 0.00 H  
 ATOM 1272 2HB CYS A 87141.769 0.914 -1.989 1.00 0.00 H  
 ATOM 1273 HG CYS A 87144.197 1.221 -1.961 1.00 0.00 H  
 ATOM 1274 N ARG A 88139.898 -0.854 -2.772 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.553 -1.266 -2.385 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.447 -1.417 -0.869 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.403 -1.831 -0.212 1.00 0.00 O  
 ATOM 1278 CB ARG A 88138.183 -2.584 -3.071 1.00 0.00 C  
 ATOM 1279 CG ARG A 88137.314 -2.402 -4.306 1.00 0.00 C  
 ATOM 1280 CD ARG A 88135.890 -2.876 -4.063 1.00 0.00 C  
 ATOM 1281 NE ARG A 88134.910 -2.045 -4.758 1.00 0.00 N  
 ATOM 1282 CZ ARG A 88133.621 -2.356 -4.870 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88133.152 -3.476 -4.333 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88132.797 -1.545 -5.519 1.00 0.00 N  
 ATOM 1285 H ARG A 88140.668 -1.236 -2.302 1.00 0.00 H  
 ATOM 1286 HA ARG A 88137.868 -0.497 -2.707 1.00 0.00 H  
 ATOM 1287 1HB ARG A 88139.090 -3.088 -3.366 1.00 0.00 H  
 ATOM 1288 2HB ARG A 88137.648 -3.205 -2.368 1.00 0.00 H  
 ATOM 1289 1HG ARG A 88137.293 -1.355 -4.569 1.00 0.00 H  
 ATOM 1290 2HG ARG A 88137.739 -2.972 -5.119 1.00 0.00 H  
 ATOM 1291 1HD ARG A 88135.798 -3.893 -4.413 1.00 0.00 H  
 ATOM 1292 2HD ARG A 88135.689 -2.842 -3.001 1.00 0.00 H  
 ATOM 1293 HE ARG A 88135.230 -1.212 -5.164 1.00 0.00 H  
 ATOM 1294 1HH1 ARG A 88133.766 -4.092 -3.841 1.00 0.00 H  
 ATOM 1295 2HH1 ARG A 88132.182 -3.703 -4.421 1.00 0.00 H  
 ATOM 1296 1HH2 ARG A 88133.145 -0.699 -5.925 1.00 0.00 H

ATOM 1297 2HH2 ARG A 88131.829 -1.778 -5.604 1.00 0.00 H  
 ATOM 1298 N PRO A 89137.281 -1.084 -0.289 1.00 0.00 N  
 ATOM 1299 CA PRO A 89137.064 -1.190 1.153 1.00 0.00 C  
 ATOM 1300 C PRO A 89137.008 -2.639 1.622 1.00 0.00 C  
 ATOM 1301 O PRO A 89136.039 -3.351 1.359 1.00 0.00 O  
 ATOM 1302 CB PRO A 89135.714 -0.504 1.370 1.00 0.00 C  
 ATOM 1303 CG PRO A 89135.018 -0.570 0.057 1.00 0.00 C  
 ATOM 1304 CD PRO A 89136.088 -0.585 -0.997 1.00 0.00 C  
 ATOM 1305 HA PRO A 89137.830 -0.665 1.706 1.00 0.00 H  
 ATOM 1306 1HB PRO A 89135.163 -1.036 2.125 1.00 0.00 H  
 ATOM 1307 2HB PRO A 89135.871 0.517 1.682 1.00 0.00 H  
 ATOM 1308 1HG PRO A 89134.429 -1.472 0.000 1.00 0.00 H  
 ATOM 1309 2HG PRO A 89134.387 0.298 -0.066 1.00 0.00 H  
 ATOM 1310 1HD PRO A 89135.811 -1.255 -1.793 1.00 0.00 H  
 ATOM 1311 2HD PRO A 89136.256 0.411 -1.381 1.00 0.00 H  
 ATOM 1312 N ASP A 90138.054 -3.069 2.319 1.00 0.00 N  
 ATOM 1313 CA ASP A 90138.128 -4.434 2.825 1.00 0.00 C  
 ATOM 1314 C ASP A 90137.164 -4.636 3.990 1.00 0.00 C  
 ATOM 1315 O ASP A 90137.120 -3.830 4.918 1.00 0.00 O  
 ATOM 1316 CB ASP A 90139.555 -4.759 3.267 1.00 0.00 C  
 ATOM 1317 CG ASP A 90139.889 -6.229 3.108 1.00 0.00 C  
 ATOM 1318 OD1 ASP A 90139.585 -6.796 2.037 1.00 0.00 O  
 ATOM 1319 OD2 ASP A 90140.457 -6.814 4.055 1.00 0.00 O  
 ATOM 1320 H ASP A 90138.797 -2.454 2.495 1.00 0.00 H  
 ATOM 1321 HA ASP A 90137.848 -5.101 2.023 1.00 0.00 H  
 ATOM 1322 1HB ASP A 90140.248 -4.184 2.671 1.00 0.00 H  
 ATOM 1323 2HB ASP A 90139.673 -4.491 4.307 1.00 0.00 H  
 ATOM 1324 N SER A 91136.396 -5.720 3.935 1.00 0.00 N  
 ATOM 1325 CA SER A 91135.434 -6.029 4.986 1.00 0.00 C  
 ATOM 1326 C SER A 91135.792 -7.340 5.682 1.00 0.00 C  
 ATOM 1327 O SER A 91134.923 -8.023 6.222 1.00 0.00 O

ATOM	1328	CB	SER A	91134.023	-6.119	4.404	1.00	0.00	C
ATOM	1329	OG	SER A	91133.050	-5.735	5.359	1.00	0.00	O
ATOM	1330	H	SER A	91136.479	-6.326	3.170	1.00	0.00	H
ATOM	1331	HA	SER A	91135.465	-5.230	5.712	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.946	-5.467	3.547	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.828	-7.138	4.100	1.00	0.00	H
ATOM	1334	HG	SER A	91132.215	-6.165	5.157	1.00	0.00	H
ATOM	1335	N	ARG A	92137.076	-7.684	5.665	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.546	-8.913	6.293	1.00	0.00	C
ATOM	1337	C	ARG A	92137.347	-8.863	7.804	1.00	0.00	C
ATOM	1338	O	ARG A	92137.151	-9.893	8.448	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.023	-9.143	5.969	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.262	-9.692	4.571	1.00	0.00	C
ATOM	1341	CD	ARG A	92140.006	-11.019	4.610	1.00	0.00	C
ATOM	1342	NE	ARG A	92139.227	-12.063	5.272	1.00	0.00	N
ATOM	1343	CZ	ARG A	92139.480	-13.364	5.153	1.00	0.00	C
ATOM	1344	NH1	ARG A	92140.489	-13.785	4.400	1.00	0.00	N
ATOM	1345	NH2	ARG A	92138.723	-14.248	5.790	1.00	0.00	N
ATOM	1346	H	ARG A	92137.723	-7.099	5.218	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.968	-9.731	5.893	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.550	-8.203	6.057	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.432	-9.842	6.684	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.308	-9.841	4.086	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.847	-8.978	4.010	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.217	-11.328	3.597	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.934	-10.880	5.144	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.476	-11.780	5.835	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92141.063	-13.125	3.917	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.674	-14.765	4.314	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92137.962	-13.936	6.358	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92138.913	-15.226	5.700	1.00	0.00	H



ATOM 1359 N PHE A 93137.397 -7.659 8.364 1.00 0.00 N  
 ATOM 1360 CA PHE A 93137.223 -7.476 9.800 1.00 0.00 C  
 ATOM 1361 C PHE A 93135.885 -6.812 10.112 1.00 0.00 C  
 ATOM 1362 O PHE A 93135.734 -6.155 11.142 1.00 0.00 O  
 ATOM 1363 CB PHE A 93138.367 -6.637 10.371 1.00 0.00 C  
 ATOM 1364 CG PHE A 93139.721 -7.254 10.173 1.00 0.00 C  
 ATOM 1365 CD1 PHE A 93140.279 -7.342 8.908 1.00 0.00 C  
 ATOM 1366 CD2 PHE A 93140.437 -7.747 11.253 1.00 0.00 C  
 ATOM 1367 CE1 PHE A 93141.526 -7.910 8.722 1.00 0.00 C  
 ATOM 1368 CE2 PHE A 93141.684 -8.317 11.074 1.00 0.00 C  
 ATOM 1369 CZ PHE A 93142.229 -8.398 9.806 1.00 0.00 C  
 ATOM 1370 H PHE A 93137.557 -6.874 7.799 1.00 0.00 H  
 ATOM 1371 HA PHE A 93137.241 -8.453 10.262 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93138.369 -5.670 9.889 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93138.212 -6.504 11.432 1.00 0.00 H  
 ATOM 1374 HD1 PHE A 93139.730 -6.960 8.059 1.00 0.00 H  
 ATOM 1375 HD2 PHE A 93140.012 -7.685 12.243 1.00 0.00 H  
 ATOM 1376 HE1 PHE A 93141.949 -7.972 7.731 1.00 0.00 H  
 ATOM 1377 HE2 PHE A 93142.231 -8.697 11.923 1.00 0.00 H  
 ATOM 1378 HZ PHE A 93143.202 -8.842 9.664 1.00 0.00 H  
 ATOM 1379 N ALA A 94134.916 -6.986 9.218 1.00 0.00 N  
 ATOM 1380 CA ALA A 94133.595 -6.401 9.405 1.00 0.00 C  
 ATOM 1381 C ALA A 94132.702 -7.316 10.237 1.00 0.00 C  
 ATOM 1382 O ALA A 94132.468 -8.468 9.874 1.00 0.00 O  
 ATOM 1383 CB ALA A 94132.949 -6.115 8.058 1.00 0.00 C  
 ATOM 1384 H ALA A 94135.094 -7.520 8.415 1.00 0.00 H  
 ATOM 1385 HA ALA A 94133.716 -5.462 9.925 1.00 0.00 H  
 ATOM 1386 1HB ALA A 94133.541 -5.389 7.522 1.00 0.00 H  
 ATOM 1387 2HB ALA A 94131.953 -5.726 8.211 1.00 0.00 H  
 ATOM 1388 3HB ALA A 94132.893 -7.029 7.484 1.00 0.00 H  
 ATOM 1389 N SER A 95132.209 -6.796 11.355 1.00 0.00 N

ATOM 1390 CA SER A 95131.342 -7.566 12.239 1.00 0.00 C  
 ATOM 1391 C SER A 95129.945 -7.708 11.644 1.00 0.00 C  
 ATOM 1392 O SER A 95129.179 -6.746 11.599 1.00 0.00 O  
 ATOM 1393 CB SER A 95131.257 -6.899 13.614 1.00 0.00 C  
 ATOM 1394 OG SER A 95132.407 -7.186 14.392 1.00 0.00 O  
 ATOM 1395 H SER A 95132.432 -5.870 11.591 1.00 0.00 H  
 ATOM 1396 HA SER A 95131.774 -8.549 12.352 1.00 0.00 H  
 ATOM 1397 1HB SER A 95131.182 -5.829 13.489 1.00 0.00 H  
 ATOM 1398 2HB SER A 95130.385 -7.264 14.135 1.00 0.00 H  
 ATOM 1399 HG SER A 95132.620 -8.119 14.315 1.00 0.00 H  
 ATOM 1400 N LEU A 96129.621 -8.914 11.189 1.00 0.00 N  
 ATOM 1401 CA LEU A 96128.316 -9.182 10.596 1.00 0.00 C  
 ATOM 1402 C LEU A 96127.644 -10.372 11.274 1.00 0.00 C  
 ATOM 1403 O LEU A 96126.893 -11.115 10.643 1.00 0.00 O  
 ATOM 1404 CB LEU A 96128.460 -9.448 9.096 1.00 0.00 C  
 ATOM 1405 CG LEU A 96127.305 -8.937 8.233 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96127.553 -7.499 7.806 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96127.113 -9.831 7.018 1.00 0.00 C  
 ATOM 1408 H LEU A 96130.276 -9.640 11.253 1.00 0.00 H  
 ATOM 1409 HA LEU A 96127.701 -8.307 10.739 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96129.372 -8.980 8.754 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96128.545 -10.514 8.948 1.00 0.00 H  
 ATOM 1412 HG LEU A 96126.394 -8.960 8.814 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96127.577 -6.864 8.679 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96126.761 -7.177 7.147 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96128.499 -7.436 7.289 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96127.426 -10.837 7.257 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96127.705 -9.456 6.197 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96126.069 -9.836 6.736 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.920 -10.544 12.562 1.00 0.00 N  
 ATOM 1420 CA GLN A 97127.342 -11.644 13.326 1.00 0.00 C

ATOM 1421 C GLN A 97126.857 -11.162 14.692 1.00 0.00 C  
 ATOM 1422 O GLN A 97127.477 -11.447 15.717 1.00 0.00 O  
 ATOM 1423 CB GLN A 97128.367 -12.766 13.501 1.00 0.00 C  
 ATOM 1424 CG GLN A 97127.750 -14.100 13.891 1.00 0.00 C  
 ATOM 1425 CD GLN A 97127.539 -15.014 12.701 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97128.421 -15.789 12.335 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97126.362 -14.926 12.090 1.00 0.00 N  
 ATOM 1428 H GLN A 97128.526 -9.919 13.009 1.00 0.00 H  
 ATOM 1429 HA GLN A 97126.497 -12.024 12.772 1.00 0.00 H  
 ATOM 1430 1HB GLN A 97128.901 -12.899 12.571 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97129.069 -12.479 14.271 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97128.405 -14.594 14.593 1.00 0.00 H  
 ATOM 1433 2HG GLN A 97126.794 -13.915 14.360 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97125.707 -14.287 12.436 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97126.199 -15.506 11.318 1.00 0.00 H  
 ATOM 1436 N PRO A 98125.735 -10.422 14.723 1.00 0.00 N  
 ATOM 1437 CA PRO A 98125.168 -9.901 15.972 1.00 0.00 C  
 ATOM 1438 C PRO A 98124.976 -10.992 17.021 1.00 0.00 C  
 ATOM 1439 O PRO A 98125.270 -12.161 16.775 1.00 0.00 O  
 ATOM 1440 CB PRO A 98123.815 -9.331 15.539 1.00 0.00 C  
 ATOM 1441 CG PRO A 98123.984 -9.006 14.096 1.00 0.00 C  
 ATOM 1442 CD PRO A 98124.932 -10.038 13.547 1.00 0.00 C  
 ATOM 1443 HA PRO A 98125.779 -9.111 16.383 1.00 0.00 H  
 ATOM 1444 1HB PRO A 98123.045 -10.074 15.690 1.00 0.00 H  
 ATOM 1445 2HB PRO A 98123.591 -8.449 16.118 1.00 0.00 H  
 ATOM 1446 1HG PRO A 98123.031 -9.067 13.591 1.00 0.00 H  
 ATOM 1447 2HG PRO A 98124.405 -8.017 13.989 1.00 0.00 H  
 ATOM 1448 1HD PRO A 98124.386 -10.884 13.159 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98125.557 -9.605 12.779 1.00 0.00 H  
 ATOM 1450 N SER A 99124.481 -10.600 18.190 1.00 0.00 N  
 ATOM 1451 CA SER A 99124.250 -11.544 19.276 1.00 0.00 C

ATOM 1452 C SER A 99123.171 -11.029 20.225 1.00 0.00 C  
 ATOM 1453 O SER A 99123.050 -9.825 20.446 1.00 0.00 O  
 ATOM 1454 CB SER A 99125.546 -11.794 20.048 1.00 0.00 C  
 ATOM 1455 OG SER A 99126.246 -12.909 19.523 1.00 0.00 O  
 ATOM 1456 H SER A 99124.265 -9.653 18.325 1.00 0.00 H  
 ATOM 1457 HA SER A 99123.915 -12.474 18.841 1.00 0.00 H  
 ATOM 1458 1HB SER A 99126.180 -10.922 19.976 1.00 0.00 H  
 ATOM 1459 2HB SER A 99125.315 -11.985 21.086 1.00 0.00 H  
 ATOM 1460 HG SER A 99126.177 -13.646 20.133 1.00 0.00 H  
 ATOM 1461 N GLY A 100122.391 -11.949 20.781 1.00 0.00 N  
 ATOM 1462 CA GLY A 100121.333 -11.568 21.698 1.00 0.00 C  
 ATOM 1463 C GLY A 100120.669 -12.768 22.350 1.00 0.00 C  
 ATOM 1464 O GLY A 100120.882 -13.029 23.534 1.00 0.00 O  
 ATOM 1465 H GLY A 100122.534 -12.895 20.567 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100121.751 -10.939 22.470 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100120.586 -11.008 21.156 1.00 0.00 H  
 ATOM 1468 N PRO A 101119.853 -13.522 21.595 1.00 0.00 N  
 ATOM 1469 CA PRO A 101119.160 -14.704 22.119 1.00 0.00 C  
 ATOM 1470 C PRO A 101120.116 -15.855 22.408 1.00 0.00 C  
 ATOM 1471 O PRO A 101120.667 -16.463 21.490 1.00 0.00 O  
 ATOM 1472 CB PRO A 101118.195 -15.080 20.993 1.00 0.00 C  
 ATOM 1473 CG PRO A 101118.825 -14.540 19.758 1.00 0.00 C  
 ATOM 1474 CD PRO A 101119.542 -13.284 20.172 1.00 0.00 C  
 ATOM 1475 HA PRO A 101118.601 -14.469 23.014 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101118.090 -16.154 20.949 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101117.232 -14.626 21.174 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101119.528 -15.258 19.359 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101118.065 -14.313 19.026 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101120.447 -13.159 19.596 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101118.897 -12.426 20.058 1.00 0.00 H  
 ATOM 1482 N SER A 102120.309 -16.151 23.689 1.00 0.00 N

ATOM 1483 CA SER A 102121.200 -17.231 24.099 1.00 0.00 C  
 ATOM 1484 C SER A 102120.630 -18.587 23.699 1.00 0.00 C  
 ATOM 1485 O SER A 102119.414 -18.780 23.677 1.00 0.00 O  
 ATOM 1486 CB SER A 102121.427 -17.187 25.611 1.00 0.00 C  
 ATOM 1487 OG SER A 102122.349 -18.183 26.017 1.00 0.00 O  
 ATOM 1488 H SER A 102119.841 -15.631 24.375 1.00 0.00 H  
 ATOM 1489 HA SER A 102122.145 -17.090 23.598 1.00 0.00 H  
 ATOM 1490 1HB SER A 102121.817 -16.219 25.886 1.00 0.00 H  
 ATOM 1491 2HB SER A 102120.488 -17.354 26.119 1.00 0.00 H  
 ATOM 1492 HG SER A 102123.180 -18.059 25.552 1.00 0.00 H  
 ATOM 1493 N SER A 103121.516 -19.526 23.382 1.00 0.00 N  
 ATOM 1494 CA SER A 103121.102 -20.866 22.981 1.00 0.00 C  
 ATOM 1495 C SER A 103121.823 -21.928 23.805 1.00 0.00 C  
 ATOM 1496 O SER A 103123.042 -22.072 23.719 1.00 0.00 O  
 ATOM 1497 CB SER A 103121.377 -21.085 21.493 1.00 0.00 C  
 ATOM 1498 OG SER A 103120.252 -20.729 20.707 1.00 0.00 O  
 ATOM 1499 H SER A 103122.472 -19.313 23.418 1.00 0.00 H  
 ATOM 1500 HA SER A 103120.039 -20.951 23.158 1.00 0.00 H  
 ATOM 1501 1HB SER A 103122.217 -20.476 21.191 1.00 0.00 H  
 ATOM 1502 2HB SER A 103121.607 -22.126 21.320 1.00 0.00 H  
 ATOM 1503 HG SER A 103120.093 -21.410 20.049 1.00 0.00 H  
 ATOM 1504 N GLY A 104121.061 -22.669 24.603 1.00 0.00 N  
 ATOM 1505 CA GLY A 104121.646 -23.707 25.431 1.00 0.00 C  
 ATOM 1506 C GLY A 104122.322 -23.152 26.668 1.00 0.00 C  
 ATOM 1507 O GLY A 104123.503 -22.755 26.571 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104121.672 -23.112 27.733 1.00 0.00 O  
 ATOM 1509 H GLY A 104120.094 -22.508 24.630 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104120.866 -24.390 25.736 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104122.375 -24.249 24.848 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

### Three-Dimensional Structure Coordinate Table 16

ATOM 1	N	GLY A	1114.465	13.647	-4.280	1.00	0.00	N
ATOM 2	CA	GLY A	1115.658	12.860	-4.696	1.00	0.00	C
ATOM 3	C	GLY A	1116.783	12.931	-3.682	1.00	0.00	C
ATOM 4	O	GLY A	1116.542	13.135	-2.492	1.00	0.00	O
ATOM 5	1H	GLY A	1114.611	14.656	-4.490	1.00	0.00	H
ATOM 6	2H	GLY A	1114.301	13.538	-3.259	1.00	0.00	H
ATOM 7	3H	GLY A	1113.622	13.317	-4.792	1.00	0.00	H
ATOM 8	1HA	GLY A	1115.368	11.827	-4.822	1.00	0.00	H
ATOM 9	2HA	GLY A	1116.016	13.241	-5.641	1.00	0.00	H
ATOM10	N	SER A	2118.014	12.764	-4.154	1.00	0.00	N
ATOM11	CA	SER A	2119.180	12.812	-3.281	1.00	0.00	C
ATOM12	C	SER A	2119.109	11.718	-2.218	1.00	0.00	C
ATOM13	O	SER A	2118.033	11.209	-1.910	1.00	0.00	O
ATOM14	CB	SER A	2119.288	14.183	-2.611	1.00	0.00	C
ATOM15	OG	SER A	2120.412	14.244	-1.750	1.00	0.00	O
ATOM16	H	SER A	2118.141	12.606	-5.113	1.00	0.00	H
ATOM17	HA	SER A	2120.057	12.649	-3.889	1.00	0.00	H
ATOM18	1HB	SER A	2119.391	14.944	-3.370	1.00	0.00	H
ATOM19	2HB	SER A	2118.395	14.369	-2.033	1.00	0.00	H
ATOM20	HG	SER A	2120.671	15.160	-1.627	1.00	0.00	H
ATOM21	N	SER A	3120.263	11.363	-1.664	1.00	0.00	N
ATOM22	CA	SER A	3120.332	10.331	-0.637	1.00	0.00	C
ATOM23	C	SER A	3119.649	10.793	0.646	1.00	0.00	C
ATOM24	O	SER A	3119.225	11.943	0.756	1.00	0.00	O
ATOM25	CB	SER A	3121.790	9.965	-0.348	1.00	0.00	C
ATOM26	OG	SER A	3122.435	9.482	-1.514	1.00	0.00	O
ATOM27	H	SER A	3121.089	11.806	-1.953	1.00	0.00	H
ATOM28	HA	SER A	3119.819	9.458	-1.009	1.00	0.00	H
ATOM29	1HB	SER A	3122.316	10.840	0.002	1.00	0.00	H

ATOM30	2HB	SER A	3121.822	9.198	0.411	1.00	0.00	H
ATOM31	HG	SER A	3122.692	10.223	-2.067	1.00	0.00	H
ATOM32	N	GLY A	4119.545	9.888	1.614	1.00	0.00	N
ATOM33	CA	GLY A	4118.912	10.221	2.876	1.00	0.00	C
ATOM34	C	GLY A	4119.917	10.581	3.953	1.00	0.00	C
ATOM35	O	GLY A	4119.656	10.397	5.141	1.00	0.00	O
ATOM36	H	GLY A	4119.901	8.986	1.470	1.00	0.00	H
ATOM37	1HA	GLY A	4118.249	11.060	2.723	1.00	0.00	H
ATOM38	2HA	GLY A	4118.331	9.374	3.210	1.00	0.00	H
ATOM39	N	SER A	5121.069	11.095	3.536	1.00	0.00	N
ATOM40	CA	SER A	5122.118	11.481	4.474	1.00	0.00	C
ATOM41	C	SER A	5122.635	12.882	4.162	1.00	0.00	C
ATOM42	O	SER A	5123.763	13.050	3.698	1.00	0.00	O
ATOM43	CB	SER A	5123.269	10.475	4.427	1.00	0.00	C
ATOM44	OG	SER A	5124.148	10.652	5.523	1.00	0.00	O
ATOM45	H	SER A	5121.219	11.217	2.575	1.00	0.00	H
ATOM46	HA	SER A	5121.691	11.480	5.465	1.00	0.00	H
ATOM47	1HB	SER A	5122.870	9.472	4.461	1.00	0.00	H
ATOM48	2HB	SER A	5123.824	10.609	3.510	1.00	0.00	H
ATOM49	HG	SER A	5125.049	10.735	5.201	1.00	0.00	H
ATOM50	N	SER A	6121.802	13.885	4.419	1.00	0.00	N
ATOM51	CA	SER A	6122.174	15.272	4.165	1.00	0.00	C
ATOM52	C	SER A	6122.528	15.487	2.696	1.00	0.00	C
ATOM53	O	SER A	6123.240	16.430	2.350	1.00	0.00	O
ATOM54	CB	SER A	6123.357	15.675	5.048	1.00	0.00	C
ATOM55	OG	SER A	6123.715	17.028	4.837	1.00	0.00	O
ATOM56	H	SER A	6120.916	13.687	4.787	1.00	0.00	H
ATOM57	HA	SER A	6121.326	15.893	4.412	1.00	0.00	H
ATOM58	1HB	SER A	6123.089	15.544	6.086	1.00	0.00	H
ATOM59	2HB	SER A	6124.206	15.048	4.815	1.00	0.00	H
ATOM60	HG	SER A	6124.530	17.069	4.329	1.00	0.00	H

ATOM61 N GLY A 7122.025 14.607 1.832 1.00 0.00 N  
 ATOM62 CA GLY A 7122.298 14.722 0.411 1.00 0.00 C  
 ATOM63 C GLY A 7123.782 14.785 0.103 1.00 0.00 C  
 ATOM64 O GLY A 7124.188 15.347 -0.914 1.00 0.00 O  
 ATOM65 H GLY A 7121.462 13.877 2.162 1.00 0.00 H  
 ATOM66 1HA GLY A 7121.875 13.867 -0.095 1.00 0.00 H  
 ATOM67 2HA GLY A 7121.826 15.617 0.036 1.00 0.00 H  
 ATOM68 N LEU A 8124.593 14.208 0.985 1.00 0.00 N  
 ATOM69 CA LEU A 8126.040 14.204 0.802 1.00 0.00 C  
 ATOM70 C LEU A 8126.654 12.914 1.338 1.00 0.00 C  
 ATOM71 O LEU A 8126.101 12.277 2.233 1.00 0.00 O  
 ATOM72 CB LEU A 8126.668 15.410 1.502 1.00 0.00 C  
 ATOM73 CG LEU A 8126.465 16.749 0.792 1.00 0.00 C  
 ATOM74 CD1 LEU A 8126.371 17.881 1.803 1.00 0.00 C  
 ATOM75 CD2 LEU A 8127.595 17.004 -0.194 1.00 0.00 C  
 ATOM76 H LEU A 8124.210 13.777 1.777 1.00 0.00 H  
 ATOM77 HA LEU A 8126.241 14.270 -0.258 1.00 0.00 H  
 ATOM78 1HB LEU A 8126.244 15.484 2.494 1.00 0.00 H  
 ATOM79 2HB LEU A 8127.729 15.235 1.594 1.00 0.00 H  
 ATOM80 HG LEU A 8125.537 16.718 0.238 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8125.365 17.934 2.193 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8126.619 18.815 1.321 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8127.061 17.699 2.613 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8127.586 16.240 -0.958 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8128.540 16.980 0.328 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8127.462 17.973 -0.652 1.00 0.00 H  
 ATOM87 N ALA A 9127.801 12.537 0.783 1.00 0.00 N  
 ATOM88 CA ALA A 9128.491 11.324 1.204 1.00 0.00 C  
 ATOM89 C ALA A 9129.942 11.326 0.735 1.00 0.00 C  
 ATOM90 O ALA A 9130.521 10.272 0.470 1.00 0.00 O  
 ATOM91 CB ALA A 9127.766 10.095 0.677 1.00 0.00 C



ATOM92 H ALAA 9128.193 13.087 0.072 1.00 0.00 H  
 ATOM93 HA ALAA 9128.473 11.288 2.284 1.00 0.00 H  
 ATOM94 1HB ALAA 9128.252 9.203 1.046 1.00 0.00 H  
 ATOM95 2HB ALAA 9127.791 10.097 -0.403 1.00 0.00 H  
 ATOM96 3HB ALAA 9126.740 10.110 1.012 1.00 0.00 H  
 ATOM97 N META 10130.524 12.517 0.633 1.00 0.00 N  
 ATOM98 CA META 10131.908 12.656 0.195 1.00 0.00 C  
 ATOM99 C META 10132.400 14.089 0.386 1.00 0.00 C  
 ATOM 100 O META 10132.681 14.794 -0.583 1.00 0.00 O  
 ATOM 101 CB META 10132.042 12.247 -1.274 1.00 0.00 C  
 ATOM 102 CG META 10131.090 12.986 -2.200 1.00 0.00 C  
 ATOM 103 SD META 10129.481 12.181 -2.329 1.00 0.00 S  
 ATOM 104 CE META 10128.429 13.582 -2.694 1.00 0.00 C  
 ATOM 105 H META 10130.012 13.321 0.857 1.00 0.00 H  
 ATOM 106 HA META 10132.514 11.996 0.799 1.00 0.00 H  
 ATOM 107 1HB META 10133.053 12.445 -1.599 1.00 0.00 H  
 ATOM 108 2HB META 10131.847 11.189 -1.361 1.00 0.00 H  
 ATOM 109 1HG META 10130.946 13.987 -1.823 1.00 0.00 H  
 ATOM 110 2HG META 10131.532 13.034 -3.185 1.00 0.00 H  
 ATOM 111 1HE META 10127.605 13.263 -3.315 1.00 0.00 H  
 ATOM 112 2HE META 10129.001 14.335 -3.216 1.00 0.00 H  
 ATOM 113 3HE META 10128.046 13.996 -1.773 1.00 0.00 H  
 ATOM 114 N PRO A 11132.508 14.542 1.648 1.00 0.00 N  
 ATOM 115 CA PRO A 11132.967 15.899 1.963 1.00 0.00 C  
 ATOM 116 C PRO A 11134.349 16.201 1.385 1.00 0.00 C  
 ATOM 117 O PRO A 11134.556 17.252 0.777 1.00 0.00 O  
 ATOM 118 CB PRO A 11133.008 15.926 3.495 1.00 0.00 C  
 ATOM 119 CG PRO A 11132.100 14.826 3.926 1.00 0.00 C  
 ATOM 120 CD PRO A 11132.192 13.770 2.862 1.00 0.00 C  
 ATOM 121 HA PRO A 11132.266 16.640 1.609 1.00 0.00 H  
 ATOM 122 1HB PRO A 11134.020 15.761 3.834 1.00 0.00 H

ATOM	123	2HB	PRO A	11132.658	16.885	3.848	1.00	0.00	H
ATOM	124	1HG	PRO A	11132.429	14.430	4.876	1.00	0.00	H
ATOM	125	2HG	PRO A	11131.088	15.194	4.003	1.00	0.00	H
ATOM	126	1HD	PRO A	11132.981	13.070	3.091	1.00	0.00	H
ATOM	127	2HD	PRO A	11131.248	13.256	2.757	1.00	0.00	H
ATOM	128	N	PRO A	12135.322	15.287	1.564	1.00	0.00	N
ATOM	129	CA	PRO A	12136.681	15.479	1.054	1.00	0.00	C
ATOM	130	C	PRO A	12136.793	15.157	-0.433	1.00	0.00	C
ATOM	131	O	PRO A	12137.545	15.802	-1.162	1.00	0.00	O
ATOM	132	CB	PRO A	12137.499	14.491	1.880	1.00	0.00	C
ATOM	133	CG	PRO A	12136.553	13.379	2.178	1.00	0.00	C
ATOM	134	CD	PRO A	12135.182	13.999	2.276	1.00	0.00	C
ATOM	135	HA	PRO A	12137.034	16.484	1.233	1.00	0.00	H
ATOM	136	1HB	PRO A	12138.346	14.149	1.303	1.00	0.00	H
ATOM	137	2HB	PRO A	12137.843	14.970	2.785	1.00	0.00	H
ATOM	138	1HG	PRO A	12136.578	12.654	1.379	1.00	0.00	H
ATOM	139	2HG	PRO A	12136.821	12.913	3.115	1.00	0.00	H
ATOM	140	1HD	PRO A	12134.453	13.369	1.790	1.00	0.00	H
ATOM	141	2HD	PRO A	12134.916	14.157	3.310	1.00	0.00	H
ATOM	142	N	GLY A	13136.040	14.155	-0.875	1.00	0.00	N
ATOM	143	CA	GLY A	13136.070	13.766	-2.274	1.00	0.00	C
ATOM	144	C	GLY A	13136.942	12.551	-2.519	1.00	0.00	C
ATOM	145	O	GLY A	13137.708	12.513	-3.482	1.00	0.00	O
ATOM	146	H	GLY A	13135.459	13.677	-0.248	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.063	13.544	-2.595	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.449	14.592	-2.857	1.00	0.00	H
ATOM	149	N	ASN A	14136.825	11.556	-1.647	1.00	0.00	N
ATOM	150	CA	ASN A	14137.610	10.332	-1.773	1.00	0.00	C
ATOM	151	C	ASN A	14136.722	9.154	-2.163	1.00	0.00	C
ATOM	152	O	ASN A	14135.495	9.265	-2.170	1.00	0.00	O
ATOM	153	CB	ASN A	14138.334	10.028	-0.461	1.00	0.00	C

ATOM	154	CG	ASN A	14139.513	10.951	-0.224	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.973	11.636	-1.137	1.00	0.00	O
ATOM	156	ND2	ASN A	14140.010	10.973	1.008	1.00	0.00	N
ATOM	157	H	ASN A	14136.197	11.645	-0.899	1.00	0.00	H
ATOM	158	HA	ASN A	14138.343	10.487	-2.550	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.642	10.142	0.360	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.695	9.010	-0.484	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.593	10.400	1.685	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.773	11.561	1.189	1.00	0.00	H
ATOM	163	N	SER A	15137.349	8.029	-2.486	1.00	0.00	N
ATOM	164	CA	SER A	15136.615	6.831	-2.877	1.00	0.00	C
ATOM	165	C	SER A	15135.895	6.219	-1.680	1.00	0.00	C
ATOM	166	O	SER A	15136.454	5.388	-0.966	1.00	0.00	O
ATOM	167	CB	SER A	15137.567	5.803	-3.493	1.00	0.00	C
ATOM	168	OG	SER A	15137.683	5.990	-4.893	1.00	0.00	O
ATOM	169	H	SER A	15138.329	8.003	-2.461	1.00	0.00	H
ATOM	170	HA	SER A	15135.882	7.118	-3.615	1.00	0.00	H
ATOM	171	1HB	SER A	15138.545	5.907	-3.047	1.00	0.00	H
ATOM	172	2HB	SER A	15137.190	4.808	-3.306	1.00	0.00	H
ATOM	173	HG	SER A	15138.354	5.400	-5.241	1.00	0.00	H
ATOM	174	N	HIS A	16134.650	6.639	-1.469	1.00	0.00	N
ATOM	175	CA	HIS A	16133.844	6.136	-0.358	1.00	0.00	C
ATOM	176	C	HIS A	16134.419	6.586	0.982	1.00	0.00	C
ATOM	177	O	HIS A	16133.836	7.427	1.667	1.00	0.00	O
ATOM	178	CB	HIS A	16133.757	4.609	-0.406	1.00	0.00	C
ATOM	179	CG	HIS A	16133.274	4.077	-1.718	1.00	0.00	C
ATOM	180	ND1	HIS A	16132.095	3.374	-1.857	1.00	0.00	N
ATOM	181	CD2	HIS A	16133.814	4.149	-2.958	1.00	0.00	C
ATOM	182	CE1	HIS A	16131.933	3.035	-3.125	1.00	0.00	C
ATOM	183	NE2	HIS A	16132.962	3.494	-3.813	1.00	0.00	N
ATOM	184	H	HIS A	16134.262	7.303	-2.075	1.00	0.00	H

ATOM	185	HA	HIS A	16132.851	6.547	-0.463	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.735	4.192	-0.220	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.077	4.271	0.362	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.470	3.155	-1.135	1.00	0.00	H
ATOM	189	HD2	HIS A	16134.745	4.631	-3.225	1.00	0.00	H
ATOM	190	HE1	HIS A	16131.101	2.479	-3.529	1.00	0.00	H
ATOM	191	HE2	HIS A	16133.134	3.313	-4.760	1.00	0.00	H
ATOM	192	N	GLY A	17135.564	6.022	1.351	1.00	0.00	N
ATOM	193	CA	GLY A	17136.196	6.379	2.607	1.00	0.00	C
ATOM	194	C	GLY A	17137.537	5.697	2.796	1.00	0.00	C
ATOM	195	O	GLY A	17137.723	4.930	3.741	1.00	0.00	O
ATOM	196	H	GLY A	17135.983	5.358	0.765	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.342	7.448	2.633	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.543	6.095	3.419	1.00	0.00	H
ATOM	199	N	LEU A	18138.473	5.976	1.895	1.00	0.00	N
ATOM	200	CA	LEU A	18139.804	5.384	1.966	1.00	0.00	C
ATOM	201	C	LEU A	18140.828	6.406	2.448	1.00	0.00	C
ATOM	202	O	LEU A	18141.251	7.280	1.691	1.00	0.00	O
ATOM	203	CB	LEU A	18140.215	4.837	0.598	1.00	0.00	C
ATOM	204	CG	LEU A	18139.384	3.655	0.096	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.678	3.382	-1.370	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.658	2.418	0.937	1.00	0.00	C
ATOM	207	H	LEU A	18138.264	6.595	1.164	1.00	0.00	H
ATOM	208	HA	LEU A	18139.766	4.569	2.673	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.138	5.638	-0.124	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.247	4.524	0.655	1.00	0.00	H
ATOM	211	HG	LEU A	18138.335	3.897	0.187	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.829	4.317	-1.888	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.844	2.856	-1.812	1.00	0.00	H
ATOM	214	3HD1	LEU A	18140.569	2.776	-1.452	1.00	0.00	H
ATOM	215	1HD2	LEU A	18140.707	2.381	1.193	1.00	0.00	H

ATOM	216	2HD2	LEU A	18139.394	1.534	0.375	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.068	2.458	1.841	1.00	0.00	H
ATOM	218	N	GLU A	19141.224	6.289	3.711	1.00	0.00	N
ATOM	219	CA	GLU A	19142.200	7.202	4.294	1.00	0.00	C
ATOM	220	C	GLU A	19143.132	6.464	5.249	1.00	0.00	C
ATOM	221	O	GLU A	19142.949	5.275	5.516	1.00	0.00	O
ATOM	222	CB	GLU A	19141.489	8.339	5.032	1.00	0.00	C
ATOM	223	CG	GLU A	19140.515	7.858	6.094	1.00	0.00	C
ATOM	224	CD	GLU A	19140.123	8.956	7.064	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.696	9.002	8.173	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.243	9.770	6.714	1.00	0.00	O
ATOM	227	H	GLU A	19140.851	5.571	4.264	1.00	0.00	H
ATOM	228	HA	GLU A	19142.786	7.619	3.489	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.232	8.962	5.510	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.942	8.931	4.314	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.623	7.493	5.608	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.975	7.055	6.650	1.00	0.00	H
ATOM	233	N	VAL A	20144.131	7.174	5.761	1.00	0.00	N
ATOM	234	CA	VAL A	20145.091	6.585	6.688	1.00	0.00	C
ATOM	235	C	VAL A	20144.396	6.059	7.939	1.00	0.00	C
ATOM	236	O	VAL A	20143.606	6.765	8.566	1.00	0.00	O
ATOM	237	CB	VAL A	20146.169	7.603	7.102	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.263	6.925	7.911	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.753	8.291	5.876	1.00	0.00	C
ATOM	240	H	VAL A	20144.225	8.117	5.511	1.00	0.00	H
ATOM	241	HA	VAL A	20145.577	5.762	6.184	1.00	0.00	H
ATOM	242	HB	VAL A	20145.707	8.355	7.723	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.901	6.726	8.909	1.00	0.00	H
ATOM	244	2HG1	VAL A	20148.127	7.571	7.963	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.538	5.994	7.436	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.901	7.563	5.091	1.00	0.00	H

ATOM	247	2HG2	VAL A	20147.699	8.743	6.133	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.070	9.056	5.534	1.00	0.00	H
ATOM	249	N	GLY A	21144.697	4.815	8.297	1.00	0.00	N
ATOM	250	CA	GLY A	21144.093	4.215	9.472	1.00	0.00	C
ATOM	251	C	GLY A	21143.030	3.192	9.121	1.00	0.00	C
ATOM	252	O	GLY A	21142.786	2.255	9.881	1.00	0.00	O
ATOM	253	H	GLY A	21145.333	4.300	7.759	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.865	3.732	10.053	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.643	4.995	10.070	1.00	0.00	H
ATOM	256	N	SER A	22142.395	3.373	7.967	1.00	0.00	N
ATOM	257	CA	SER A	22141.352	2.458	7.518	1.00	0.00	C
ATOM	258	C	SER A	22141.942	1.331	6.678	1.00	0.00	C
ATOM	259	O	SER A	22143.029	1.465	6.115	1.00	0.00	O
ATOM	260	CB	SER A	22140.297	3.214	6.710	1.00	0.00	C
ATOM	261	OG	SER A	22139.734	4.272	7.466	1.00	0.00	O
ATOM	262	H	SER A	22142.634	4.140	7.406	1.00	0.00	H
ATOM	263	HA	SER A	22140.885	2.032	8.393	1.00	0.00	H
ATOM	264	1HB	SER A	22140.753	3.627	5.822	1.00	0.00	H
ATOM	265	2HB	SER A	22139.508	2.533	6.424	1.00	0.00	H
ATOM	266	HG	SER A	22140.433	4.752	7.915	1.00	0.00	H
ATOM	267	N	LEU A	23141.218	0.219	6.597	1.00	0.00	N
ATOM	268	CA	LEU A	23141.669	-0.934	5.826	1.00	0.00	C
ATOM	269	C	LEU A	23141.184	-0.848	4.382	1.00	0.00	C
ATOM	270	O	LEU A	23140.137	-0.263	4.103	1.00	0.00	O
ATOM	271	CB	LEU A	23141.171	-2.230	6.468	1.00	0.00	C
ATOM	272	CG	LEU A	23141.497	-2.384	7.954	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.442	-3.232	8.646	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.878	-2.995	8.135	1.00	0.00	C
ATOM	275	H	LEU A	23140.360	0.172	7.069	1.00	0.00	H
ATOM	276	HA	LEU A	23142.750	-0.933	5.830	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.098	-2.276	6.348	1.00	0.00	H

ATOM	278	2HB	LEU A	23141.610	-3.062	5.938	1.00	0.00	H
ATOM	279	HG	LEU A	23141.499	-1.409	8.417	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.296	-2.872	9.655	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.769	-4.261	8.676	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.512	-3.164	8.103	1.00	0.00	H
ATOM	283	1HD2	LEU A	23142.787	-4.066	8.242	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.341	-2.583	9.019	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.487	-2.771	7.271	1.00	0.00	H
ATOM	286	N	ALAA	24141.952	-1.432	3.469	1.00	0.00	N
ATOM	287	CA	ALAA	24141.601	-1.421	2.054	1.00	0.00	C
ATOM	288	C	ALAA	24142.116	-2.673	1.351	1.00	0.00	C
ATOM	289	O	ALAA	24142.944	-3.405	1.892	1.00	0.00	O
ATOM	290	CB	ALAA	24142.151	-0.172	1.384	1.00	0.00	C
ATOM	291	H	ALAA	24142.775	-1.883	3.753	1.00	0.00	H
ATOM	292	HA	ALAA	24140.523	-1.397	1.979	1.00	0.00	H
ATOM	293	1HB	ALAA	24141.804	-0.130	0.362	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.231	-0.203	1.396	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.809	0.702	1.917	1.00	0.00	H
ATOM	296	N	GLU A	25141.621	-2.911	0.140	1.00	0.00	N
ATOM	297	CA	GLU A	25142.032	-4.073	-0.638	1.00	0.00	C
ATOM	298	C	GLU A	25142.413	-3.670	-2.059	1.00	0.00	C
ATOM	299	O	GLU A	25141.857	-2.724	-2.616	1.00	0.00	O
ATOM	300	CB	GLU A	25140.909	-5.112	-0.675	1.00	0.00	C
ATOM	301	CG	GLU A	25141.354	-6.471	-1.189	1.00	0.00	C
ATOM	302	CD	GLU A	25140.264	-7.186	-1.963	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.483	-7.486	-3.156	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.193	-7.448	-1.377	1.00	0.00	O
ATOM	305	H	GLU A	25140.964	-2.290	-0.238	1.00	0.00	H
ATOM	306	HA	GLU A	25142.896	-4.507	-0.156	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.519	-5.238	0.324	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.121	-4.749	-1.316	1.00	0.00	H

ATOM	309	1HG	GLU A	25142.206	-6.336	-1.839	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.639	-7.085	-0.346	1.00	0.00	H
ATOM	311	N	VAL A	26143.365	-4.393	-2.639	1.00	0.00	N
ATOM	312	CA	VAL A	26143.818	-4.111	-3.996	1.00	0.00	C
ATOM	313	C	VAL A	26143.404	-5.220	-4.956	1.00	0.00	C
ATOM	314	O	VAL A	26143.286	-6.381	-4.564	1.00	0.00	O
ATOM	315	CB	VAL A	26145.348	-3.944	-4.054	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.781	-3.452	-5.427	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.824	-2.994	-2.964	1.00	0.00	C
ATOM	318	H	VAL A	26143.770	-5.136	-2.145	1.00	0.00	H
ATOM	319	HA	VAL A	26143.363	-3.184	-4.314	1.00	0.00	H
ATOM	320	HB	VAL A	26145.803	-4.909	-3.884	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.067	-4.295	-6.038	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.621	-2.781	-5.321	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.960	-2.929	-5.897	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.567	-3.399	-1.997	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.347	-2.033	-3.091	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.895	-2.875	-3.033	1.00	0.00	H
ATOM	327	N	LYS A	27143.181	-4.855	-6.214	1.00	0.00	N
ATOM	328	CA	LYS A	27142.779	-5.820	-7.230	1.00	0.00	C
ATOM	329	C	LYS A	27143.997	-6.413	-7.931	1.00	0.00	C
ATOM	330	O	LYS A	27144.477	-5.869	-8.926	1.00	0.00	O
ATOM	331	CB	LYS A	27141.857	-5.158	-8.255	1.00	0.00	C
ATOM	332	CG	LYS A	27141.362	-6.110	-9.332	1.00	0.00	C
ATOM	333	CD	LYS A	27140.993	-5.366	-10.605	1.00	0.00	C
ATOM	334	CE	LYS A	27139.489	-5.171	-10.721	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.857	-6.224	-11.562	1.00	0.00	N
ATOM	336	H	LYS A	27143.291	-3.914	-6.465	1.00	0.00	H
ATOM	337	HA	LYS A	27142.241	-6.616	-6.736	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.998	-4.753	-7.741	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.392	-4.352	-8.735	1.00	0.00	H



ATOM	340	1HG	LYS A	27142.143	-6.821	-9.557	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.492	-6.633	-8.965	1.00	0.00	H
ATOM	342	1HD	LYS A	27141.472	-4.398	-10.598	1.00	0.00	H
ATOM	343	2HD	LYS A	27141.340	-5.934	-11.456	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.059	-5.204	-9.732	1.00	0.00	H
ATOM	345	2HE	LYS A	27139.298	-4.204	-11.164	1.00	0.00	H
ATOM	346	1HZ	LYS A	27139.514	-6.530	-12.307	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.993	-5.854	-12.008	1.00	0.00	H
ATOM	348	3HZ	LYS A	27138.606	-7.046	-10.976	1.00	0.00	H
ATOM	349	N	GLU A	28144.491	-7.528	-7.406	1.00	0.00	N
ATOM	350	CA	GLU A	28145.652	-8.196	-7.982	1.00	0.00	C
ATOM	351	C	GLU A	28145.452	-9.707	-8.012	1.00	0.00	C
ATOM	352	O	GLU A	28144.372	-10.206	-7.696	1.00	0.00	O
ATOM	353	CB	GLU A	28146.913	-7.849	-7.187	1.00	0.00	C
ATOM	354	CG	GLU A	28148.072	-7.381	-8.054	1.00	0.00	C
ATOM	355	CD	GLU A	28149.197	-8.396	-8.122	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.946	-8.520	-7.131	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.328	-9.067	-9.168	1.00	0.00	O
ATOM	358	H	GLU A	28144.064	-7.914	-6.613	1.00	0.00	H
ATOM	359	HA	GLU A	28145.769	-7.841	-8.996	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.677	-7.063	-6.485	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.232	-8.724	-6.637	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.705	-7.205	-9.055	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.461	-6.460	-7.646	1.00	0.00	H
ATOM	364	N	ASN A	29146.499	-10.431	-8.393	1.00	0.00	N
ATOM	365	CA	ASN A	29146.438	-11.886	-8.463	1.00	0.00	C
ATOM	366	C	ASN A	29146.389	-12.496	-7.064	1.00	0.00	C
ATOM	367	O	ASN A	29145.446	-13.209	-6.723	1.00	0.00	O
ATOM	368	CB	ASN A	29147.643	-12.432	-9.232	1.00	0.00	C
ATOM	369	CG	ASN A	29147.314	-12.736	-10.680	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.172	-13.897	-11.066	1.00	0.00	O

ATOM 371 ND2 ASN A 29147.191 -11.693 -11.491 1.00 0.00 N  
 ATOM 372 H ASN A 29147.333 -9.976 -8.632 1.00 0.00 H  
 ATOM 373 HA ASN A 29145.535 -12.153 -8.990 1.00 0.00 H  
 ATOM 374 1HB ASN A 29148.437 -11.702 -9.209 1.00 0.00 H  
 ATOM 375 2HB ASN A 29147.983 -13.342 -8.760 1.00 0.00 H  
 ATOM 376 1HD2 ASN A 29147.318 -10.797 -11.114 1.00 0.00 H  
 ATOM 377 2HD2 ASN A 29146.979 -11.860 -12.433 1.00 0.00 H  
 ATOM 378 N PRO A 30147.409 -12.221 -6.232 1.00 0.00 N  
 ATOM 379 CA PRO A 30147.478 -12.745 -4.866 1.00 0.00 C  
 ATOM 380 C PRO A 30146.589 -11.964 -3.899 1.00 0.00 C  
 ATOM 381 O PRO A 30146.864 -10.804 -3.593 1.00 0.00 O  
 ATOM 382 CB PRO A 30148.950 -12.559 -4.504 1.00 0.00 C  
 ATOM 383 CG PRO A 30149.375 -11.360 -5.279 1.00 0.00 C  
 ATOM 384 CD PRO A 30148.576 -11.377 -6.557 1.00 0.00 C  
 ATOM 385 HA PRO A 30147.224 -13.794 -4.829 1.00 0.00 H  
 ATOM 386 1HB PRO A 30149.045 -12.398 -3.440 1.00 0.00 H  
 ATOM 387 2HB PRO A 30149.510 -13.435 -4.795 1.00 0.00 H  
 ATOM 388 1HG PRO A 30149.160 -10.464 -4.715 1.00 0.00 H  
 ATOM 389 2HG PRO A 30150.431 -11.421 -5.498 1.00 0.00 H  
 ATOM 390 1HD PRO A 30148.266 -10.377 -6.820 1.00 0.00 H  
 ATOM 391 2HD PRO A 30149.155 -11.815 -7.357 1.00 0.00 H  
 ATOM 392 N PRO A 31145.506 -12.589 -3.400 1.00 0.00 N  
 ATOM 393 CA PRO A 31144.582 -11.938 -2.465 1.00 0.00 C  
 ATOM 394 C PRO A 31145.273 -11.512 -1.174 1.00 0.00 C  
 ATOM 395 O PRO A 31145.292 -12.256 -0.194 1.00 0.00 O  
 ATOM 396 CB PRO A 31143.530 -13.017 -2.176 1.00 0.00 C  
 ATOM 397 CG PRO A 31143.649 -13.986 -3.302 1.00 0.00 C  
 ATOM 398 CD PRO A 31145.095 -13.970 -3.704 1.00 0.00 C  
 ATOM 399 HA PRO A 31144.106 -11.078 -2.915 1.00 0.00 H  
 ATOM 400 1HB PRO A 31143.743 -13.486 -1.228 1.00 0.00 H  
 ATOM 401 2HB PRO A 31142.549 -12.566 -2.148 1.00 0.00 H

ATOM	402	1HG	PRO A	31143.363	-14.973	-2.970	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.027	-13.671	-4.127	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.659	-14.680	-3.117	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.197	-14.180	-4.758	1.00	0.00	H
ATOM	406	N	PHE A	32145.839	-10.310	-1.180	1.00	0.00	N
ATOM	407	CA	PHE A	32146.531	-9.786	-0.008	1.00	0.00	C
ATOM	408	C	PHE A	32145.739	-8.650	0.630	1.00	0.00	C
ATOM	409	O	PHE A	32145.153	-7.821	-0.066	1.00	0.00	O
ATOM	410	CB	PHE A	32147.929	-9.295	-0.391	1.00	0.00	C
ATOM	411	CG	PHE A	32147.920	-8.172	-1.387	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.563	-6.890	-1.002	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.269	-8.398	-2.709	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.554	-5.853	-1.915	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.262	-7.364	-3.628	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.904	-6.091	-3.231	1.00	0.00	C
ATOM	417	H	PHE A	32145.790	-9.762	-1.991	1.00	0.00	H
ATOM	418	HA	PHE A	32146.625	-10.588	0.707	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.435	-8.947	0.496	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.486	-10.117	-0.819	1.00	0.00	H
ATOM	421	HD1	PHE A	32147.289	-6.702	0.026	1.00	0.00	H
ATOM	422	HD2	PHE A	32148.549	-9.392	-3.020	1.00	0.00	H
ATOM	423	HE1	PHE A	32147.273	-4.858	-1.603	1.00	0.00	H
ATOM	424	HE2	PHE A	32148.536	-7.553	-4.656	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.898	-5.283	-3.946	1.00	0.00	H
ATOM	426	N	TYR A	33145.726	-8.618	1.958	1.00	0.00	N
ATOM	427	CA	TYR A	33145.008	-7.584	2.692	1.00	0.00	C
ATOM	428	C	TYR A	33145.978	-6.652	3.409	1.00	0.00	C
ATOM	429	O	TYR A	33147.068	-7.062	3.809	1.00	0.00	O
ATOM	430	CB	TYR A	33144.051	-8.218	3.703	1.00	0.00	C
ATOM	431	CG	TYR A	33142.678	-8.509	3.140	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.103	-9.766	3.278	1.00	0.00	C

ATOM	433	CD2 TYR A	33141.958	-7.528	2.471	1.00	0.00	C
ATOM	434	CE1 TYR A	33140.848	-10.037	2.766	1.00	0.00	C
ATOM	435	CE2 TYR A	33140.703	-7.790	1.956	1.00	0.00	C
ATOM	436	CZ TYR A	33140.153	-9.046	2.105	1.00	0.00	C
ATOM	437	OH TYR A	33138.903	-9.311	1.594	1.00	0.00	O
ATOM	438	H TYR A	33146.213	-9.306	2.456	1.00	0.00	H
ATOM	439	HA TYR A	33144.434	-7.008	1.980	1.00	0.00	H
ATOM	440	1HB TYR A	33144.471	-9.150	4.050	1.00	0.00	H
ATOM	441	2HB TYR A	33143.931	-7.549	4.543	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.649	-10.540	3.797	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.392	-6.546	2.355	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.417	-11.020	2.884	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.158	-7.014	1.438	1.00	0.00	H
ATOM	446	HH TYR A	33138.373	-9.756	2.258	1.00	0.00	H
ATOM	447	N GLY A	34145.577	-5.394	3.566	1.00	0.00	N
ATOM	448	CA GLY A	34146.424	-4.424	4.235	1.00	0.00	C
ATOM	449	C GLY A	34145.652	-3.209	4.709	1.00	0.00	C
ATOM	450	O GLY A	34144.432	-3.140	4.555	1.00	0.00	O
ATOM	451	H GLY A	34144.699	-5.123	3.226	1.00	0.00	H
ATOM	452	1HA GLY A	34146.889	-4.896	5.087	1.00	0.00	H
ATOM	453	2HA GLY A	34147.195	-4.103	3.550	1.00	0.00	H
ATOM	454	N VAL A	35146.364	-2.247	5.288	1.00	0.00	N
ATOM	455	CA VAL A	35145.739	-1.029	5.787	1.00	0.00	C
ATOM	456	C VAL A	35146.436	0.210	5.232	1.00	0.00	C
ATOM	457	O VAL A	35147.649	0.213	5.028	1.00	0.00	O
ATOM	458	CB VAL A	35145.761	-0.977	7.327	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.192	-0.974	7.845	1.00	0.00	C
ATOM	460	CG2 VAL A	35145.000	0.239	7.834	1.00	0.00	C
ATOM	461	H VAL A	35147.333	-2.361	5.381	1.00	0.00	H
ATOM	462	HA VAL A	35144.708	-1.026	5.461	1.00	0.00	H
ATOM	463	HB VAL A	35145.270	-1.863	7.703	1.00	0.00	H

ATOM	464	1HG1	VAL A	35147.184	-0.984	8.926	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.698	-0.086	7.498	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.708	-1.850	7.481	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.345	1.122	7.317	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.169	0.353	8.895	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.944	0.105	7.651	1.00	0.00	H
ATOM	470	N	ILE A	36145.659	1.262	4.991	1.00	0.00	N
ATOM	471	CA	ILE A	36146.203	2.507	4.461	1.00	0.00	C
ATOM	472	C	ILE A	36147.159	3.153	5.458	1.00	0.00	C
ATOM	473	O	ILE A	36146.910	3.152	6.663	1.00	0.00	O
ATOM	474	CB	ILE A	36145.084	3.507	4.112	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.038	2.845	3.214	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.667	4.740	3.436	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.906	3.770	2.818	1.00	0.00	C
ATOM	478	H	ILE A	36144.698	1.199	5.175	1.00	0.00	H
ATOM	479	HA	ILE A	36146.745	2.274	3.556	1.00	0.00	H
ATOM	480	HB	ILE A	36144.612	3.821	5.032	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.516	2.501	2.309	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.610	2.000	3.732	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.865	5.398	3.135	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.232	4.440	2.566	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.316	5.256	4.127	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.176	4.788	3.054	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.013	3.498	3.361	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.725	3.682	1.756	1.00	0.00	H
ATOM	489	N	ARG A	37148.255	3.705	4.945	1.00	0.00	N
ATOM	490	CA	ARG A	37149.250	4.355	5.790	1.00	0.00	C
ATOM	491	C	ARG A	37149.509	5.785	5.323	1.00	0.00	C
ATOM	492	O	ARG A	37149.278	6.741	6.061	1.00	0.00	O
ATOM	493	CB	ARG A	37150.555	3.558	5.781	1.00	0.00	C
ATOM	494	CG	ARG A	37150.360	2.068	6.015	1.00	0.00	C

ATOM	495	CD	ARG A	37149.771	1.793	7.390	1.00	0.00	C
ATOM	496	NE	ARG A	37150.664	2.224	8.463	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.430	2.003	9.755	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.334	1.359	10.137	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.293	2.429	10.667	1.00	0.00	N
ATOM	500	H	ARG A	37148.396	3.673	3.976	1.00	0.00	H
ATOM	501	HA	ARG A	37148.862	4.384	6.797	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.038	3.690	4.824	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.201	3.940	6.556	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.688	1.680	5.264	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.316	1.573	5.937	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.835	2.323	7.480	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.595	0.731	7.485	1.00	0.00	H
ATOM	508	HE	ARG A	37151.480	2.703	8.209	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.679	1.035	9.455	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.165	1.195	11.109	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.120	2.915	10.384	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.118	2.264	11.637	1.00	0.00	H
ATOM	513	N	TRP A	38149.992	5.923	4.091	1.00	0.00	N
ATOM	514	CA	TRP A	38150.282	7.236	3.528	1.00	0.00	C
ATOM	515	C	TRP A	38149.598	7.413	2.174	1.00	0.00	C
ATOM	516	O	TRP A	38149.676	6.542	1.309	1.00	0.00	O
ATOM	517	CB	TRP A	38151.795	7.432	3.381	1.00	0.00	C
ATOM	518	CG	TRP A	38152.166	8.645	2.578	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.399	9.903	3.052	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.339	8.712	1.157	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.706	10.749	2.013	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.675	10.041	0.840	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.241	7.776	0.124	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.916	10.455	-0.468	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.480	8.189	-1.174	1.00	0.00	C

ATOM	526	CH2	TRP A	38152.814	9.518	-1.460	1.00	0.00	C
ATOM	527	H	TRP A	38150.156	5.122	3.550	1.00	0.00	H
ATOM	528	HA	TRP A	38149.897	7.980	4.210	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.234	7.537	4.362	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.217	6.567	2.893	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.346	10.181	4.094	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.914	11.703	2.097	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.985	6.747	0.325	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.170	11.477	-0.706	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.409	7.479	-1.985	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.991	9.796	-2.489	1.00	0.00	H
ATOM	537	N	ILE A	39148.938	8.552	2.000	1.00	0.00	N
ATOM	538	CA	ILE A	39148.248	8.854	0.752	1.00	0.00	C
ATOM	539	C	ILE A	39148.745	10.172	0.170	1.00	0.00	C
ATOM	540	O	ILE A	39148.421	11.247	0.676	1.00	0.00	O
ATOM	541	CB	ILE A	39146.722	8.938	0.956	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.221	7.736	1.761	1.00	0.00	C
ATOM	543	CG2	ILE A	39146.013	9.017	-0.388	1.00	0.00	C
ATOM	544	CD1	ILE A	39145.393	8.123	2.967	1.00	0.00	C
ATOM	545	H	ILE A	39148.919	9.208	2.727	1.00	0.00	H
ATOM	546	HA	ILE A	39148.456	8.059	0.052	1.00	0.00	H
ATOM	547	HB	ILE A	39146.505	9.844	1.502	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.610	7.113	1.126	1.00	0.00	H
ATOM	549	2HG1	ILE A	39147.069	7.164	2.110	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.966	10.047	-0.710	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.012	8.625	-0.290	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.559	8.436	-1.118	1.00	0.00	H
ATOM	553	1HD1	ILE A	39145.869	8.941	3.485	1.00	0.00	H
ATOM	554	2HD1	ILE A	39145.310	7.276	3.633	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.407	8.424	2.645	1.00	0.00	H
ATOM	556	N	GLY A	40149.540	10.085	-0.892	1.00	0.00	N

ATOM	557	CA	GLY A	40150.072	11.282	-1.515	1.00	0.00	C
ATOM	558	C	GLY A	40150.651	11.019	-2.891	1.00	0.00	C
ATOM	559	O	GLY A	40150.491	9.932	-3.444	1.00	0.00	O
ATOM	560	H	GLY A	40149.770	9.203	-1.251	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.282	12.010	-1.603	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.847	11.687	-0.883	1.00	0.00	H
ATOM	563	N	GLN A	41151.325	12.023	-3.443	1.00	0.00	N
ATOM	564	CA	GLN A	41151.933	11.908	-4.762	1.00	0.00	C
ATOM	565	C	GLN A	41153.415	12.277	-4.707	1.00	0.00	C
ATOM	566	O	GLN A	41153.765	13.423	-4.426	1.00	0.00	O
ATOM	567	CB	GLN A	41151.204	12.816	-5.752	1.00	0.00	C
ATOM	568	CG	GLN A	41149.691	12.670	-5.711	1.00	0.00	C
ATOM	569	CD	GLN A	41148.975	14.000	-5.846	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.930	14.793	-4.906	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.410	14.250	-7.021	1.00	0.00	N
ATOM	572	H	GLN A	41151.414	12.865	-2.949	1.00	0.00	H
ATOM	573	HA	GLN A	41151.835	10.884	-5.086	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.451	13.842	-5.527	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.540	12.584	-6.751	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.380	12.029	-6.521	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.411	12.222	-4.769	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.486	13.573	-7.725	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.940	15.102	-7.137	1.00	0.00	H
ATOM	580	N	PRO A	42154.311	11.309	-4.972	1.00	0.00	N
ATOM	581	CA	PRO A	42155.758	11.547	-4.946	1.00	0.00	C
ATOM	582	C	PRO A	42156.179	12.657	-5.905	1.00	0.00	C
ATOM	583	O	PRO A	42155.455	12.987	-6.843	1.00	0.00	O
ATOM	584	CB	PRO A	42156.356	10.207	-5.388	1.00	0.00	C
ATOM	585	CG	PRO A	42155.296	9.203	-5.095	1.00	0.00	C
ATOM	586	CD	PRO A	42153.991	9.911	-5.315	1.00	0.00	C
ATOM	587	HA	PRO A	42156.101	11.786	-3.950	1.00	0.00	H



ATOM	588	1HB	PRO A	42156.586	10.244	-6.442	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.254	10.008	-4.823	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.387	8.364	-5.771	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.375	8.871	-4.071	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.684	9.827	-6.348	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.231	9.517	-4.658	1.00	0.00	H
ATOM	594	N	PRO A	43157.363	13.249	-5.679	1.00	0.00	N
ATOM	595	CA	PRO A	43157.881	14.326	-6.528	1.00	0.00	C
ATOM	596	C	PRO A	43158.324	13.821	-7.895	1.00	0.00	C
ATOM	597	O	PRO A	43159.493	13.486	-8.095	1.00	0.00	O
ATOM	598	CB	PRO A	43159.080	14.853	-5.743	1.00	0.00	C
ATOM	599	CG	PRO A	43159.531	13.697	-4.917	1.00	0.00	C
ATOM	600	CD	PRO A	43158.291	12.915	-4.581	1.00	0.00	C
ATOM	601	HA	PRO A	43157.153	15.114	-6.654	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.849	15.170	-6.431	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.775	15.683	-5.125	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.217	13.087	-5.485	1.00	0.00	H
ATOM	605	2HG	PRO A	43160.005	14.054	-4.015	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.506	11.856	-4.567	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.891	13.232	-3.630	1.00	0.00	H
ATOM	608	N	GLY A	44157.387	13.768	-8.834	1.00	0.00	N
ATOM	609	CA	GLY A	44157.705	13.303	-10.169	1.00	0.00	C
ATOM	610	C	GLY A	44156.484	12.809	-10.918	1.00	0.00	C
ATOM	611	O	GLY A	44156.229	13.226	-12.047	1.00	0.00	O
ATOM	612	H	GLY A	44156.473	14.047	-8.617	1.00	0.00	H
ATOM	613	1HA	GLY A	44158.149	14.114	-10.725	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.419	12.496	-10.097	1.00	0.00	H
ATOM	615	N	LEU A	45155.725	11.918	-10.287	1.00	0.00	N
ATOM	616	CA	LEU A	45154.523	11.370	-10.904	1.00	0.00	C
ATOM	617	C	LEU A	45153.295	11.657	-10.050	1.00	0.00	C
ATOM	618	O	LEU A	45153.164	11.135	-8.943	1.00	0.00	O

ATOM	619	CB	LEU	A	45154.673	9.861	-11.111	1.00	0.00	C
ATOM	620	CG	LEU	A	45155.191	9.090	-9.896	1.00	0.00	C
ATOM	621	CD1	LEU	A	45154.827	7.615	-10.002	1.00	0.00	C
ATOM	622	CD2	LEU	A	45156.697	9.266	-9.756	1.00	0.00	C
ATOM	623	H	LEU	A	45155.978	11.626	-9.384	1.00	0.00	H
ATOM	624	HA	LEU	A	45154.398	11.845	-11.866	1.00	0.00	H
ATOM	625	1HB	LEU	A	45153.707	9.460	-11.383	1.00	0.00	H
ATOM	626	2HB	LEU	A	45155.357	9.697	-11.931	1.00	0.00	H
ATOM	627	HG	LEU	A	45154.723	9.484	-9.004	1.00	0.00	H
ATOM	628	1HD1	LEU	A	45154.218	7.455	-10.880	1.00	0.00	H
ATOM	629	2HD1	LEU	A	45154.275	7.317	-9.123	1.00	0.00	H
ATOM	630	3HD1	LEU	A	45155.729	7.025	-10.079	1.00	0.00	H
ATOM	631	1HD2	LEU	A	45157.159	8.306	-9.582	1.00	0.00	H
ATOM	632	2HD2	LEU	A	45156.906	9.922	-8.925	1.00	0.00	H
ATOM	633	3HD2	LEU	A	45157.095	9.697	-10.664	1.00	0.00	H
ATOM	634	N	ASN	A	46152.396	12.487	-10.566	1.00	0.00	N
ATOM	635	CA	ASN	A	46151.182	12.831	-9.837	1.00	0.00	C
ATOM	636	C	ASN	A	46150.210	11.656	-9.839	1.00	0.00	C
ATOM	637	O	ASN	A	46149.608	11.335	-10.863	1.00	0.00	O
ATOM	638	CB	ASN	A	46150.518	14.060	-10.460	1.00	0.00	C
ATOM	639	CG	ASN	A	46149.756	14.885	-9.442	1.00	0.00	C
ATOM	640	OD1	ASN	A	46148.535	15.019	-9.523	1.00	0.00	O
ATOM	641	ND2	ASN	A	46150.475	15.444	-8.476	1.00	0.00	N
ATOM	642	H	ASN	A	46152.550	12.874	-11.453	1.00	0.00	H
ATOM	643	HA	ASN	A	46151.457	13.056	-8.818	1.00	0.00	H
ATOM	644	1HB	ASN	A	46151.277	14.685	-10.906	1.00	0.00	H
ATOM	645	2HB	ASN	A	46149.827	13.738	-11.227	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46151.443	15.294	-8.474	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46150.008	15.982	-7.803	1.00	0.00	H
ATOM	648	N	GLU	A	47150.065	11.019	-8.683	1.00	0.00	N
ATOM	649	CA	GLU	A	47149.170	9.877	-8.543	1.00	0.00	C

ATOM	650	C	GLU A	47148.942	9.545	-7.073	1.00	0.00	C
ATOM	651	O	GLU A	47149.887	9.254	-6.341	1.00	0.00	O
ATOM	652	CB	GLU A	47149.741	8.657	-9.270	1.00	0.00	C
ATOM	653	CG	GLU A	47151.249	8.512	-9.129	1.00	0.00	C
ATOM	654	CD	GLU A	47151.835	7.534	-10.128	1.00	0.00	C
ATOM	655	OE1	GLU A	47152.125	6.385	-9.733	1.00	0.00	O
ATOM	656	OE2	GLU A	47152.005	7.916	-11.304	1.00	0.00	O
ATOM	657	H	GLU A	47150.576	11.322	-7.903	1.00	0.00	H
ATOM	658	HA	GLU A	47148.224	10.141	-8.991	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.278	7.766	-8.872	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.506	8.736	-10.320	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.706	9.477	-9.283	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.475	8.164	-8.132	1.00	0.00	H
ATOM	663	N	VAL A	48147.686	9.586	-6.647	1.00	0.00	N
ATOM	664	CA	VAL A	48147.346	9.281	-5.263	1.00	0.00	C
ATOM	665	C	VAL A	48147.678	7.831	-4.933	1.00	0.00	C
ATOM	666	O	VAL A	48146.921	6.919	-5.267	1.00	0.00	O
ATOM	667	CB	VAL A	48145.854	9.534	-4.978	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.566	9.417	-3.490	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.432	10.897	-5.505	1.00	0.00	C
ATOM	670	H	VAL A	48146.971	9.820	-7.275	1.00	0.00	H
ATOM	671	HA	VAL A	48147.931	9.929	-4.625	1.00	0.00	H
ATOM	672	HB	VAL A	48145.277	8.779	-5.493	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.569	9.780	-3.286	1.00	0.00	H
ATOM	674	2HG1	VAL A	48146.283	10.006	-2.937	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.640	8.383	-3.189	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.318	10.849	-6.578	1.00	0.00	H
ATOM	677	2HG2	VAL A	48146.187	11.628	-5.256	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.492	11.182	-5.056	1.00	0.00	H
ATOM	679	N	LEU A	49148.816	7.624	-4.281	1.00	0.00	N
ATOM	680	CA	LEU A	49149.250	6.283	-3.909	1.00	0.00	C

ATOM	681	C	LEU A	49149.076	6.055	-2.413	1.00	0.00	C
ATOM	682	O	LEU A	49149.743	6.692	-1.597	1.00	0.00	O
ATOM	683	CB	LEU A	49150.712	6.068	-4.304	1.00	0.00	C
ATOM	684	CG	LEU A	49150.984	6.063	-5.809	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.453	6.335	-6.087	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.560	4.737	-6.421	1.00	0.00	C
ATOM	687	H	LEU A	49149.378	8.391	-4.041	1.00	0.00	H
ATOM	688	HA	LEU A	49148.634	5.576	-4.443	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.303	6.853	-3.854	1.00	0.00	H
ATOM	690	2HB	LEU A	49151.036	5.121	-3.899	1.00	0.00	H
ATOM	691	HG	LEU A	49150.405	6.847	-6.275	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.547	6.928	-6.984	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.975	5.398	-6.218	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.884	6.872	-5.254	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.544	4.813	-6.778	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.622	3.959	-5.675	1.00	0.00	H
ATOM	697	3HD2	LEU A	49151.214	4.496	-7.247	1.00	0.00	H
ATOM	698	N	ALAA	50148.177	5.145	-2.059	1.00	0.00	N
ATOM	699	CA	ALAA	50147.920	4.838	-0.661	1.00	0.00	C
ATOM	700	C	ALAA	50148.793	3.683	-0.183	1.00	0.00	C
ATOM	701	O	ALAA	50148.658	2.554	-0.654	1.00	0.00	O
ATOM	702	CB	ALAA	50146.448	4.511	-0.454	1.00	0.00	C
ATOM	703	H	ALAA	50147.675	4.671	-2.755	1.00	0.00	H
ATOM	704	HA	ALAA	50148.154	5.719	-0.082	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.320	3.440	-0.414	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.871	4.912	-1.273	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.109	4.949	0.473	1.00	0.00	H
ATOM	708	N	GLY A	51149.690	3.974	0.753	1.00	0.00	N
ATOM	709	CA	GLY A	51150.574	2.950	1.277	1.00	0.00	C
ATOM	710	C	GLY A	51149.829	1.892	2.067	1.00	0.00	C
ATOM	711	O	GLY A	51149.265	2.178	3.121	1.00	0.00	O

ATOM	712	H	GLY A	51149.754	4.892	1.090	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.085	2.474	0.453	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.306	3.416	1.921	1.00	0.00	H
ATOM	715	N	LEU A	52149.829	0.665	1.555	1.00	0.00	N
ATOM	716	CA	LEU A	52149.149	-0.440	2.220	1.00	0.00	C
ATOM	717	C	LEU A	52150.150	-1.351	2.923	1.00	0.00	C
ATOM	718	O	LEU A	52151.154	-1.756	2.337	1.00	0.00	O
ATOM	719	CB	LEU A	52148.330	-1.244	1.209	1.00	0.00	C
ATOM	720	CG	LEU A	52147.084	-0.536	0.673	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.371	-1.410	-0.345	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.148	-0.170	1.815	1.00	0.00	C
ATOM	723	H	LEU A	52150.298	0.499	0.710	1.00	0.00	H
ATOM	724	HA	LEU A	52148.482	-0.021	2.958	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.969	-1.488	0.373	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.018	-2.163	1.681	1.00	0.00	H
ATOM	727	HG	LEU A	52147.383	0.376	0.178	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.328	-1.134	-0.389	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.456	-2.447	-0.053	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.820	-1.272	-1.317	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.625	0.562	2.451	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.920	-1.054	2.391	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.235	0.244	1.412	1.00	0.00	H
ATOM	734	N	GLU A	53149.869	-1.669	4.182	1.00	0.00	N
ATOM	735	CA	GLU A	53150.744	-2.533	4.965	1.00	0.00	C
ATOM	736	C	GLU A	53150.203	-3.959	5.007	1.00	0.00	C
ATOM	737	O	GLU A	53149.225	-4.242	5.699	1.00	0.00	O
ATOM	738	CB	GLU A	53150.892	-1.989	6.388	1.00	0.00	C
ATOM	739	CG	GLU A	53151.852	-2.792	7.250	1.00	0.00	C
ATOM	740	CD	GLU A	53151.466	-2.780	8.716	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.269	-2.289	9.538	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.360	-3.260	9.044	1.00	0.00	O

ATOM	743	H	GLU A	53149.053	-1.315	4.593	1.00	0.00	H
ATOM	744	HA	GLU A	53151.713	-2.542	4.490	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.255	-0.972	6.335	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.924	-1.992	6.865	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.857	-3.815	6.904	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.843	-2.373	7.150	1.00	0.00	H
ATOM	749	N	LEU A	54150.846	-4.852	4.262	1.00	0.00	N
ATOM	750	CA	LEU A	54150.430	-6.249	4.214	1.00	0.00	C
ATOM	751	C	LEU A	54150.631	-6.923	5.567	1.00	0.00	C
ATOM	752	O	LEU A	54151.705	-6.836	6.162	1.00	0.00	O
ATOM	753	CB	LEU A	54151.213	-6.998	3.135	1.00	0.00	C
ATOM	754	CG	LEU A	54151.220	-6.331	1.759	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.393	-6.831	0.929	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.906	-6.587	1.037	1.00	0.00	C
ATOM	757	H	LEU A	54151.619	-4.564	3.733	1.00	0.00	H
ATOM	758	HA	LEU A	54149.379	-6.272	3.966	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.236	-7.101	3.468	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.786	-7.985	3.030	1.00	0.00	H
ATOM	761	HG	LEU A	54151.331	-5.264	1.885	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.306	-6.728	1.497	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.465	-6.250	0.022	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.240	-7.871	0.680	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.462	-7.499	1.409	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.090	-6.683	-0.023	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.232	-5.761	1.211	1.00	0.00	H
ATOM	768	N	GLU A	55149.590	-7.595	6.048	1.00	0.00	N
ATOM	769	CA	GLU A	55149.653	-8.284	7.331	1.00	0.00	C
ATOM	770	C	GLU A	55150.613	-9.468	7.267	1.00	0.00	C
ATOM	771	O	GLU A	55151.246	-9.820	8.263	1.00	0.00	O
ATOM	772	CB	GLU A	55148.261	-8.765	7.744	1.00	0.00	C
ATOM	773	CG	GLU A	55147.281	-7.634	8.009	1.00	0.00	C

ATOM	774	CD	GLU A	55146.305	-7.957	9.124	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.186	-7.403	9.112	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.660	-8.765	10.008	1.00	0.00	O
ATOM	777	H	GLU A	55148.760	-7.628	5.528	1.00	0.00	H
ATOM	778	HA	GLU A	55150.014	-7.582	8.067	1.00	0.00	H
ATOM	779	1HB	GLU A	55147.858	-9.384	6.957	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.349	-9.354	8.644	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.836	-6.749	8.282	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.721	-7.441	7.104	1.00	0.00	H
ATOM	783	N	ASP A	56150.717	-10.077	6.091	1.00	0.00	N
ATOM	784	CA	ASP A	56151.601	-11.220	5.898	1.00	0.00	C
ATOM	785	C	ASP A	56152.965	-10.773	5.385	1.00	0.00	C
ATOM	786	O	ASP A	56153.065	-10.126	4.342	1.00	0.00	O
ATOM	787	CB	ASP A	56150.975	-12.215	4.918	1.00	0.00	C
ATOM	788	CG	ASP A	56150.131	-13.263	5.618	1.00	0.00	C
ATOM	789	OD1	ASP A	56150.329	-14.464	5.342	1.00	0.00	O
ATOM	790	OD2	ASP A	56149.275	-12.881	6.443	1.00	0.00	O
ATOM	791	H	ASP A	56150.187	-9.749	5.335	1.00	0.00	H
ATOM	792	HA	ASP A	56151.730	-11.705	6.854	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.346	-11.679	4.223	1.00	0.00	H
ATOM	794	2HB	ASP A	56151.761	-12.717	4.373	1.00	0.00	H
ATOM	795	N	GLU A	57154.013	-11.122	6.123	1.00	0.00	N
ATOM	796	CA	GLU A	57155.372	-10.756	5.742	1.00	0.00	C
ATOM	797	C	GLU A	57155.819	-11.534	4.509	1.00	0.00	C
ATOM	798	O	GLU A	57156.361	-12.633	4.617	1.00	0.00	O
ATOM	799	CB	GLU A	57156.337	-11.018	6.901	1.00	0.00	C
ATOM	800	CG	GLU A	57156.180	-10.041	8.055	1.00	0.00	C
ATOM	801	CD	GLU A	57157.188	-10.282	9.162	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.344	-9.829	9.022	1.00	0.00	O
ATOM	803	OE2	GLU A	57156.820	-10.922	10.170	1.00	0.00	O
ATOM	804	H	GLU A	57153.869	-11.638	6.944	1.00	0.00	H

ATOM	805	HA	GLU A	57155.379	-9.702	5.511	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.167	-12.016	7.277	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.350	-10.949	6.533	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.314	-9.037	7.680	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.186	-10.142	8.464	1.00	0.00	H
ATOM	810	N	CYS A	58155.588	-10.954	3.334	1.00	0.00	N
ATOM	811	CA	CYS A	58155.966	-11.592	2.079	1.00	0.00	C
ATOM	812	C	CYS A	58157.251	-10.984	1.524	1.00	0.00	C
ATOM	813	O	CYS A	58157.464	-9.774	1.610	1.00	0.00	O
ATOM	814	CB	CYS A	58154.840	-11.456	1.054	1.00	0.00	C
ATOM	815	SG	CYS A	58153.495	-12.644	1.273	1.00	0.00	S
ATOM	816	H	CYS A	58155.153	-10.076	3.312	1.00	0.00	H
ATOM	817	HA	CYS A	58156.136	-12.640	2.278	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.417	-10.465	1.125	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.247	-11.598	0.063	1.00	0.00	H
ATOM	820	HG	CYS A	58153.569	-13.017	2.154	1.00	0.00	H
ATOM	821	N	ALAA	59158.103	-11.830	0.956	1.00	0.00	N
ATOM	822	CA	ALAA	59159.367	-11.377	0.388	1.00	0.00	C
ATOM	823	C	ALAA	59159.133	-10.493	-0.833	1.00	0.00	C
ATOM	824	O	ALAA	59158.338	-10.828	-1.711	1.00	0.00	O
ATOM	825	CB	ALAA	59160.237	-12.568	0.019	1.00	0.00	C
ATOM	826	H	ALAA	59157.877	-12.784	0.918	1.00	0.00	H
ATOM	827	HA	ALAA	59159.884	-10.802	1.142	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.836	-12.324	-0.846	1.00	0.00	H
ATOM	829	2HB	ALAA	59159.609	-13.417	-0.206	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.886	-12.811	0.848	1.00	0.00	H
ATOM	831	N	GLY A	60159.830	-9.362	-0.881	1.00	0.00	N
ATOM	832	CA	GLY A	60159.684	-8.448	-1.998	1.00	0.00	C
ATOM	833	C	GLY A	60158.880	-7.214	-1.637	1.00	0.00	C
ATOM	834	O	GLY A	60158.226	-6.619	-2.492	1.00	0.00	O
ATOM	835	H	GLY A	60160.449	-9.148	-0.152	1.00	0.00	H



ATOM	836	1HA	GLY A	60160.665	-8.141	-2.328	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.188	-8.963	-2.807	1.00	0.00	H
ATOM	838	N	CYS A	61158.929	-6.830	-0.365	1.00	0.00	N
ATOM	839	CA	CYS A	61158.200	-5.659	0.108	1.00	0.00	C
ATOM	840	C	CYS A	61159.087	-4.786	0.991	1.00	0.00	C
ATOM	841	O	CYS A	61159.907	-5.293	1.757	1.00	0.00	O
ATOM	842	CB	CYS A	61156.954	-6.089	0.884	1.00	0.00	C
ATOM	843	SG	CYS A	61155.907	-7.271	0.002	1.00	0.00	S
ATOM	844	H	CYS A	61159.469	-7.346	0.270	1.00	0.00	H
ATOM	845	HA	CYS A	61157.897	-5.087	-0.754	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.257	-6.550	1.812	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.356	-5.216	1.100	1.00	0.00	H
ATOM	848	HG	CYS A	61156.179	-7.278	-0.918	1.00	0.00	H
ATOM	849	N	THR A	62158.917	-3.474	0.877	1.00	0.00	N
ATOM	850	CA	THR A	62159.702	-2.530	1.664	1.00	0.00	C
ATOM	851	C	THR A	62159.143	-2.404	3.078	1.00	0.00	C
ATOM	852	O	THR A	62158.196	-3.099	3.446	1.00	0.00	O
ATOM	853	CB	THR A	62159.721	-1.159	0.986	1.00	0.00	C
ATOM	854	OG1	THR A	62158.458	-0.526	1.100	1.00	0.00	O
ATOM	855	CG2	THR A	62160.070	-1.223	-0.485	1.00	0.00	C
ATOM	856	H	THR A	62158.248	-3.130	0.248	1.00	0.00	H
ATOM	857	HA	THR A	62160.712	-2.907	1.722	1.00	0.00	H
ATOM	858	HB	THR A	62160.458	-0.537	1.475	1.00	0.00	H
ATOM	859	HG1	THR A	62157.777	-1.107	0.755	1.00	0.00	H
ATOM	860	1HG2	THR A	62159.178	-1.417	-1.059	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.784	-2.017	-0.651	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.502	-0.283	-0.795	1.00	0.00	H
ATOM	863	N	ASP A	63159.735	-1.511	3.865	1.00	0.00	N
ATOM	864	CA	ASP A	63159.296	-1.294	5.239	1.00	0.00	C
ATOM	865	C	ASP A	63158.638	0.075	5.389	1.00	0.00	C
ATOM	866	O	ASP A	63158.710	0.696	6.449	1.00	0.00	O

ATOM	867	CB	ASP A	63160.481	-1.410	6.200	1.00	0.00	C
ATOM	868	CG	ASP A	63161.653	-0.546	5.781	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.891	0.491	6.435	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.335	-0.906	4.798	1.00	0.00	O
ATOM	871	H	ASP A	63160.485	-0.987	3.514	1.00	0.00	H
ATOM	872	HA	ASP A	63158.572	-2.056	5.480	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.167	-1.103	7.187	1.00	0.00	H
ATOM	874	2HB	ASP A	63160.808	-2.438	6.234	1.00	0.00	H
ATOM	875	N	GLY A	64157.997	0.538	4.320	1.00	0.00	N
ATOM	876	CA	GLY A	64157.336	1.829	4.354	1.00	0.00	C
ATOM	877	C	GLY A	64158.131	2.907	3.644	1.00	0.00	C
ATOM	878	O	GLY A	64158.365	3.981	4.198	1.00	0.00	O
ATOM	879	H	GLY A	64157.973	-0.002	3.503	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.369	1.738	3.880	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.193	2.121	5.384	1.00	0.00	H
ATOM	882	N	THR A	65158.548	2.619	2.416	1.00	0.00	N
ATOM	883	CA	THR A	65159.322	3.572	1.629	1.00	0.00	C
ATOM	884	C	THR A	65158.949	3.489	0.152	1.00	0.00	C
ATOM	885	O	THR A	65158.860	2.401	-0.416	1.00	0.00	O
ATOM	886	CB	THR A	65160.819	3.313	1.803	1.00	0.00	C
ATOM	887	OG1	THR A	65161.067	1.935	2.023	1.00	0.00	O
ATOM	888	CG2	THR A	65161.430	4.078	2.957	1.00	0.00	C
ATOM	889	H	THR A	65158.330	1.745	2.028	1.00	0.00	H
ATOM	890	HA	THR A	65159.094	4.564	1.990	1.00	0.00	H
ATOM	891	HB	THR A	65161.333	3.610	0.900	1.00	0.00	H
ATOM	892	HG1	THR A	65160.761	1.430	1.267	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.652	5.087	2.641	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.341	3.590	3.271	1.00	0.00	H
ATOM	895	3HG2	THR A	65160.732	4.104	3.781	1.00	0.00	H
ATOM	896	N	PHE A	66158.732	4.647	-0.465	1.00	0.00	N
ATOM	897	CA	PHE A	66158.369	4.705	-1.876	1.00	0.00	C

ATOM	898	C	PHE A	66159.321	5.616	-2.644	1.00	0.00	C
ATOM	899	O	PHE A	66159.363	6.824	-2.414	1.00	0.00	O
ATOM	900	CB	PHE A	66156.931	5.204	-2.033	1.00	0.00	C
ATOM	901	CG	PHE A	66156.344	4.927	-3.388	1.00	0.00	C
ATOM	902	CD1	PHE A	66156.277	5.925	-4.346	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.859	3.667	-3.702	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.739	5.673	-5.594	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.318	3.410	-4.948	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.258	4.413	-5.895	1.00	0.00	C
ATOM	907	H	PHE A	66158.819	5.482	0.042	1.00	0.00	H
ATOM	908	HA	PHE A	66158.440	3.706	-2.279	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.307	4.722	-1.296	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.909	6.273	-1.872	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.653	6.910	-4.112	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.905	2.882	-2.963	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.692	6.460	-6.332	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.943	2.424	-5.181	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.836	4.213	-6.868	1.00	0.00	H
ATOM	916	N	ARG A	67160.086	5.027	-3.557	1.00	0.00	N
ATOM	917	CA	ARG A	67161.038	5.785	-4.360	1.00	0.00	C
ATOM	918	C	ARG A	67162.073	6.468	-3.472	1.00	0.00	C
ATOM	919	O	ARG A	67162.508	7.586	-3.755	1.00	0.00	O
ATOM	920	CB	ARG A	67160.307	6.828	-5.207	1.00	0.00	C
ATOM	921	CG	ARG A	67159.321	6.229	-6.194	1.00	0.00	C
ATOM	922	CD	ARG A	67159.188	7.088	-7.441	1.00	0.00	C
ATOM	923	NE	ARG A	67159.003	8.500	-7.115	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.198	9.493	-7.980	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.585	9.233	-9.223	1.00	0.00	N
ATOM	926	NH2	ARG A	67159.008	10.749	-7.600	1.00	0.00	N
ATOM	927	H	ARG A	67160.007	4.060	-3.696	1.00	0.00	H
ATOM	928	HA	ARG A	67161.545	5.093	-5.016	1.00	0.00	H

ATOM	929	1HB	ARG A	67159.767	7.494	-4.550	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.037	7.400	-5.762	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.664	5.246	-6.481	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.354	6.149	-5.719	1.00	0.00	H
ATOM	933	1HD	ARG A	67160.085	6.981	-8.034	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.338	6.744	-8.011	1.00	0.00	H
ATOM	935	HE	ARG A	67158.717	8.720	-6.203	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.730	8.288	-9.515	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.730	9.984	-9.868	1.00	0.00	H
ATOM	938	1HH2	ARG A	67158.716	10.950	-6.665	1.00	0.00	H
ATOM	939	2HH2	ARG A	67159.155	11.495	-8.250	1.00	0.00	H
ATOM	940	N	GLY A	68162.462	5.792	-2.397	1.00	0.00	N
ATOM	941	CA	GLY A	68163.442	6.350	-1.484	1.00	0.00	C
ATOM	942	C	GLY A	68162.894	7.521	-0.691	1.00	0.00	C
ATOM	943	O	GLY A	68163.642	8.412	-0.291	1.00	0.00	O
ATOM	944	H	GLY A	68162.080	4.907	-2.222	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.757	5.579	-0.796	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.298	6.684	-2.052	1.00	0.00	H
ATOM	947	N	THR A	69161.585	7.516	-0.463	1.00	0.00	N
ATOM	948	CA	THR A	69160.934	8.585	0.287	1.00	0.00	C
ATOM	949	C	THR A	69160.118	8.020	1.443	1.00	0.00	C
ATOM	950	O	THR A	69158.973	7.605	1.263	1.00	0.00	O
ATOM	951	CB	THR A	69160.034	9.408	-0.636	1.00	0.00	C
ATOM	952	OG1	THR A	69160.665	9.633	-1.884	1.00	0.00	O
ATOM	953	CG2	THR A	69159.659	10.756	-0.060	1.00	0.00	C
ATOM	954	H	THR A	69161.041	6.777	-0.808	1.00	0.00	H
ATOM	955	HA	THR A	69161.706	9.227	0.686	1.00	0.00	H
ATOM	956	HB	THR A	69159.119	8.859	-0.812	1.00	0.00	H
ATOM	957	HG1	THR A	69161.414	10.222	-1.762	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.279	10.627	0.943	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.900	11.214	-0.677	1.00	0.00	H

ATOM	960	3HG2	THR	A	69160.532	11.391	-0.034	1.00	0.00	H
ATOM	961	N	ARG	A	70160.714	8.007	2.631	1.00	0.00	N
ATOM	962	CA	ARG	A	70160.040	7.492	3.818	1.00	0.00	C
ATOM	963	C	ARG	A	70158.775	8.291	4.114	1.00	0.00	C
ATOM	964	O	ARG	A	70158.830	9.502	4.327	1.00	0.00	O
ATOM	965	CB	ARG	A	70160.980	7.538	5.024	1.00	0.00	C
ATOM	966	CG	ARG	A	70160.363	6.981	6.296	1.00	0.00	C
ATOM	967	CD	ARG	A	70160.901	7.687	7.531	1.00	0.00	C
ATOM	968	NE	ARG	A	70162.324	7.425	7.735	1.00	0.00	N
ATOM	969	CZ	ARG	A	70163.020	7.882	8.774	1.00	0.00	C
ATOM	970	NH1	ARG	A	70162.430	8.624	9.703	1.00	0.00	N
ATOM	971	NH2	ARG	A	70164.310	7.596	8.884	1.00	0.00	N
ATOM	972	H	ARG	A	70161.627	8.350	2.711	1.00	0.00	H
ATOM	973	HA	ARG	A	70159.766	6.466	3.625	1.00	0.00	H
ATOM	974	1HB	ARG	A	70161.866	6.964	4.797	1.00	0.00	H
ATOM	975	2HB	ARG	A	70161.263	8.564	5.205	1.00	0.00	H
ATOM	976	1HG	ARG	A	70159.293	7.115	6.255	1.00	0.00	H
ATOM	977	2HG	ARG	A	70160.594	5.928	6.365	1.00	0.00	H
ATOM	978	1HD	ARG	A	70160.754	8.750	7.414	1.00	0.00	H
ATOM	979	2HD	ARG	A	70160.353	7.341	8.395	1.00	0.00	H
ATOM	980	HE	ARG	A	70162.785	6.879	7.064	1.00	0.00	H
ATOM	981	1HH1	ARG	A	70161.457	8.842	9.626	1.00	0.00	H
ATOM	982	2HH1	ARG	A	70162.958	8.964	10.481	1.00	0.00	H
ATOM	983	1HH2	ARG	A	70164.760	7.038	8.187	1.00	0.00	H
ATOM	984	2HH2	ARG	A	70164.833	7.940	9.665	1.00	0.00	H
ATOM	985	N	TYR	A	71157.637	7.605	4.126	1.00	0.00	N
ATOM	986	CA	TYR	A	71156.359	8.251	4.398	1.00	0.00	C
ATOM	987	C	TYR	A	71155.842	7.876	5.783	1.00	0.00	C
ATOM	988	O	TYR	A	71155.337	8.725	6.519	1.00	0.00	O
ATOM	989	CB	TYR	A	71155.330	7.859	3.335	1.00	0.00	C
ATOM	990	CG	TYR	A	71155.555	8.528	1.998	1.00	0.00	C

ATOM	991	CD1 TYR A	71155.502	7.798	0.817	1.00	0.00	C
ATOM	992	CD2 TYR A	71155.820	9.889	1.917	1.00	0.00	C
ATOM	993	CE1 TYR A	71155.707	8.406	-0.407	1.00	0.00	C
ATOM	994	CE2 TYR A	71156.025	10.504	0.696	1.00	0.00	C
ATOM	995	CZ TYR A	71155.968	9.759	-0.463	1.00	0.00	C
ATOM	996	OH TYR A	71156.173	10.368	-1.679	1.00	0.00	O
ATOM	997	H TYR A	71157.658	6.642	3.950	1.00	0.00	H
ATOM	998	HA TYR A	71156.512	9.319	4.360	1.00	0.00	H
ATOM	999	1HB TYR A	71155.370	6.791	3.182	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.344	8.131	3.682	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.297	6.739	0.863	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.865	10.470	2.826	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.662	7.821	-1.314	1.00	0.00	H
ATOM	1004	HE2 TYR A	71156.231	11.564	0.654	1.00	0.00	H
ATOM	1005	HH TYR A	71155.355	10.771	-1.977	1.00	0.00	H
ATOM	1006	N PHE A	72155.971	6.601	6.133	1.00	0.00	N
ATOM	1007	CA PHE A	72155.517	6.114	7.430	1.00	0.00	C
ATOM	1008	C PHE A	72156.412	4.983	7.931	1.00	0.00	C
ATOM	1009	O PHE A	72157.202	4.421	7.171	1.00	0.00	O
ATOM	1010	CB PHE A	72154.069	5.631	7.339	1.00	0.00	C
ATOM	1011	CG PHE A	72153.849	4.590	6.279	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.914	3.241	6.590	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.576	4.960	4.972	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.712	2.281	5.617	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.373	4.004	3.995	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.440	2.663	4.318	1.00	0.00	C
ATOM	1017	H PHE A	72156.382	5.972	5.503	1.00	0.00	H
ATOM	1018	HA PHE A	72155.572	6.935	8.129	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.779	5.206	8.288	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.430	6.473	7.117	1.00	0.00	H
ATOM	1021	HD1 PHE A	72154.126	2.941	7.607	1.00	0.00	H

ATOM	1022	HD2	PHE A	72153.523	6.008	4.718	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.765	1.233	5.872	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.161	4.306	2.980	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.281	1.914	3.555	1.00	0.00	H
ATOM	1026	N	THR A	73156.281	4.657	9.212	1.00	0.00	N
ATOM	1027	CA	THR A	73157.077	3.592	9.813	1.00	0.00	C
ATOM	1028	C	THR A	73156.235	2.340	10.030	1.00	0.00	C
ATOM	1029	O	THR A	73155.254	2.360	10.773	1.00	0.00	O
ATOM	1030	CB	THR A	73157.667	4.061	11.145	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.251	2.975	11.843	1.00	0.00	O
ATOM	1032	CG2	THR A	73156.646	4.699	12.060	1.00	0.00	C
ATOM	1033	H	THR A	73155.634	5.141	9.765	1.00	0.00	H
ATOM	1034	HA	THR A	73157.884	3.358	9.135	1.00	0.00	H
ATOM	1035	HB	THR A	73158.438	4.792	10.948	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.876	2.524	11.270	1.00	0.00	H
ATOM	1037	1HG2	THR A	73156.334	5.647	11.646	1.00	0.00	H
ATOM	1038	2HG2	THR A	73157.086	4.860	13.034	1.00	0.00	H
ATOM	1039	3HG2	THR A	73155.790	4.048	12.155	1.00	0.00	H
ATOM	1040	N	CYS A	74156.626	1.250	9.377	1.00	0.00	N
ATOM	1041	CA	CYS A	74155.907	-0.012	9.498	1.00	0.00	C
ATOM	1042	C	CYS A	74156.878	-1.179	9.653	1.00	0.00	C
ATOM	1043	O	CYS A	74158.092	-0.983	9.722	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.015	-0.236	8.275	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.346	0.437	8.448	1.00	0.00	S
ATOM	1046	H	CYS A	74157.416	1.297	8.799	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.286	0.043	10.380	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.470	0.235	7.416	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.926	-1.296	8.093	1.00	0.00	H
ATOM	1050	HG	CYS A	74152.728	-0.208	8.096	1.00	0.00	H
ATOM	1051	N	ALAA	75156.336	-2.390	9.706	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.155	-3.588	9.852	1.00	0.00	C

ATOM	1053	C	ALAA	75157.953	-3.865	8.582	1.00	0.00	C
ATOM	1054	O	ALAA	75157.700	-3.270	7.536	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.282	-4.784	10.200	1.00	0.00	C
ATOM	1056	H	ALAA	75155.362	-2.482	9.645	1.00	0.00	H
ATOM	1057	HA	ALAA	75157.842	-3.423	10.669	1.00	0.00	H
ATOM	1058	1HB	ALAA	75156.077	-5.353	9.306	1.00	0.00	H
ATOM	1059	2HB	ALAA	75155.353	-4.438	10.629	1.00	0.00	H
ATOM	1060	3HB	ALAA	75156.797	-5.409	10.915	1.00	0.00	H
ATOM	1061	N	LEUA	76158.917	-4.774	8.683	1.00	0.00	N
ATOM	1062	CA	LEUA	76159.752	-5.131	7.542	1.00	0.00	C
ATOM	1063	C	LEUA	76159.032	-6.118	6.628	1.00	0.00	C
ATOM	1064	O	LEUA	76158.388	-7.056	7.097	1.00	0.00	O
ATOM	1065	CB	LEUA	76161.074	-5.735	8.021	1.00	0.00	C
ATOM	1066	CG	LEUA	76161.972	-4.781	8.812	1.00	0.00	C
ATOM	1067	CD1	LEUA	76162.755	-5.542	9.871	1.00	0.00	C
ATOM	1068	CD2	LEUA	76162.916	-4.041	7.877	1.00	0.00	C
ATOM	1069	H	LEUA	76159.070	-5.215	9.545	1.00	0.00	H
ATOM	1070	HA	LEUA	76159.958	-4.229	6.987	1.00	0.00	H
ATOM	1071	1HB	LEUA	76160.851	-6.588	8.645	1.00	0.00	H
ATOM	1072	2HB	LEUA	76161.624	-6.077	7.156	1.00	0.00	H
ATOM	1073	HG	LEUA	76161.355	-4.050	9.315	1.00	0.00	H
ATOM	1074	1HD1	LEUA	76163.565	-6.082	9.401	1.00	0.00	H
ATOM	1075	2HD1	LEUA	76162.100	-6.238	10.373	1.00	0.00	H
ATOM	1076	3HD1	LEUA	76163.159	-4.844	10.590	1.00	0.00	H
ATOM	1077	1HD2	LEUA	76163.625	-4.738	7.455	1.00	0.00	H
ATOM	1078	2HD2	LEUA	76163.445	-3.278	8.428	1.00	0.00	H
ATOM	1079	3HD2	LEUA	76162.348	-3.581	7.081	1.00	0.00	H
ATOM	1080	N	LYSA	77159.145	-5.898	5.323	1.00	0.00	N
ATOM	1081	CA	LYSA	77158.504	-6.766	4.342	1.00	0.00	C
ATOM	1082	C	LYSA	77156.987	-6.744	4.503	1.00	0.00	C
ATOM	1083	O	LYSA	77156.324	-7.772	4.375	1.00	0.00	O



ATOM	1084	CB	LYS A	77159.023	-8.199	4.483	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.538	-8.303	4.461	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.091	-8.095	3.059	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.387	-7.301	3.083	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.485	-6.363	1.932	1.00	0.00	N
ATOM	1089	H	LYS A	77159.672	-5.132	5.010	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.755	-6.398	3.358	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.670	-8.607	5.419	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.631	-8.794	3.670	1.00	0.00	H
ATOM	1093	1HG	LYS A	77160.951	-7.548	5.114	1.00	0.00	H
ATOM	1094	2HG	LYS A	77160.829	-9.282	4.810	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.279	-9.058	2.610	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.360	-7.557	2.471	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.431	-6.735	4.001	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.217	-7.991	3.047	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77161.550	-5.963	1.714	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.839	-6.863	1.092	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.139	-5.586	2.158	1.00	0.00	H
ATOM	1102	N	LYS A	78156.445	-5.564	4.785	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.007	-5.407	4.964	1.00	0.00	C
ATOM	1104	C	LYS A	78154.546	-4.032	4.488	1.00	0.00	C
ATOM	1105	O	LYS A	78153.689	-3.405	5.110	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.630	-5.604	6.433	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.068	-6.946	6.999	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.557	-7.146	8.417	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.324	-8.035	8.449	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.234	-7.445	9.274	1.00	0.00	N
ATOM	1111	H	LYS A	78157.026	-4.779	4.874	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.515	-6.163	4.370	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.093	-4.824	7.019	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.558	-5.529	6.531	1.00	0.00	H

ATOM	1115	1HG	LYS A	78154.677	-7.734	6.372	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.147	-6.989	7.004	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.335	-7.607	9.007	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.306	-6.183	8.838	1.00	0.00	H
ATOM	1119	1HE	LYS A	78152.965	-8.170	7.439	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.598	-8.994	8.862	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.631	-7.002	10.127	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78151.563	-8.185	9.563	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78151.722	-6.723	8.727	1.00	0.00	H
ATOM	1124	N	ALAA	79155.121	-3.572	3.382	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.769	-2.273	2.822	1.00	0.00	C
ATOM	1126	C	ALAA	79154.594	-2.354	1.310	1.00	0.00	C
ATOM	1127	O	ALAA	79155.564	-2.522	0.571	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.829	-1.241	3.178	1.00	0.00	C
ATOM	1129	H	ALAA	79155.797	-4.119	2.931	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.835	-1.961	3.266	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.353	-0.297	3.400	1.00	0.00	H
ATOM	1132	2HB	ALAA	79156.504	-1.116	2.344	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.383	-1.576	4.042	1.00	0.00	H
ATOM	1134	N	LEU A	80153.350	-2.236	0.856	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.048	-2.297	-0.569	1.00	0.00	C
ATOM	1136	C	LEU A	80152.227	-1.087	-1.004	1.00	0.00	C
ATOM	1137	O	LEU A	80151.035	-0.995	-0.709	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.292	-3.586	-0.896	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.856	-3.730	-2.355	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.048	-4.071	-3.236	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.775	-4.791	-2.485	1.00	0.00	C
ATOM	1142	H	LEU A	80152.619	-2.105	1.494	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.984	-2.293	-1.107	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.927	-4.424	-0.645	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.409	-3.627	-0.275	1.00	0.00	H

ATOM 1146 HG LEU A 80151.448 -2.790 -2.696 1.00 0.00 H  
 ATOM 1147 1HD1 LEU A 80153.869 -3.409 -3.002 1.00 0.00 H  
 ATOM 1148 2HD1 LEU A 80152.775 -3.951 -4.273 1.00 0.00 H  
 ATOM 1149 3HD1 LEU A 80153.348 -5.093 -3.058 1.00 0.00 H  
 ATOM 1150 1HD2 LEU A 80150.078 -4.699 -1.665 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80151.227 -5.772 -2.463 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80150.250 -4.658 -3.419 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.873 -0.161 -1.704 1.00 0.00 N  
 ATOM 1154 CA PHE A 81152.202 1.044 -2.178 1.00 0.00 C  
 ATOM 1155 C PHE A 81151.397 0.757 -3.441 1.00 0.00 C  
 ATOM 1156 O PHE A 81151.830 -0.004 -4.307 1.00 0.00 O  
 ATOM 1157 CB PHE A 81153.225 2.147 -2.452 1.00 0.00 C  
 ATOM 1158 CG PHE A 81153.798 2.757 -1.203 1.00 0.00 C  
 ATOM 1159 CD1 PHE A 81153.181 3.843 -0.603 1.00 0.00 C  
 ATOM 1160 CD2 PHE A 81154.951 2.244 -0.632 1.00 0.00 C  
 ATOM 1161 CE1 PHE A 81153.705 4.406 0.546 1.00 0.00 C  
 ATOM 1162 CE2 PHE A 81155.480 2.804 0.515 1.00 0.00 C  
 ATOM 1163 CZ PHE A 81154.856 3.885 1.105 1.00 0.00 C  
 ATOM 1164 H PHE A 81153.823 -0.290 -1.907 1.00 0.00 H  
 ATOM 1165 HA PHE A 81151.528 1.375 -1.403 1.00 0.00 H  
 ATOM 1166 1HB PHE A 81154.043 1.736 -3.025 1.00 0.00 H  
 ATOM 1167 2HB PHE A 81152.752 2.935 -3.020 1.00 0.00 H  
 ATOM 1168 HD1 PHE A 81152.282 4.250 -1.039 1.00 0.00 H  
 ATOM 1169 HD2 PHE A 81155.440 1.398 -1.092 1.00 0.00 H  
 ATOM 1170 HE1 PHE A 81153.215 5.252 1.005 1.00 0.00 H  
 ATOM 1171 HE2 PHE A 81156.380 2.395 0.951 1.00 0.00 H  
 ATOM 1172 HZ PHE A 81155.267 4.324 2.002 1.00 0.00 H  
 ATOM 1173 N VAL A 82150.223 1.371 -3.541 1.00 0.00 N  
 ATOM 1174 CA VAL A 82149.357 1.182 -4.698 1.00 0.00 C  
 ATOM 1175 C VAL A 82148.503 2.419 -4.955 1.00 0.00 C  
 ATOM 1176 O VAL A 82148.414 3.310 -4.111 1.00 0.00 O

ATOM 1177 CB VAL A 82148.432 -0.036 -4.516 1.00 0.00 C  
 ATOM 1178 CG1 VAL A 82149.244 -1.323 -4.481 1.00 0.00 C  
 ATOM 1179 CG2 VAL A 82147.598 0.110 -3.253 1.00 0.00 C  
 ATOM 1180 H VAL A 82149.931 1.966 -2.818 1.00 0.00 H  
 ATOM 1181 HA VAL A 82149.986 1.005 -5.558 1.00 0.00 H  
 ATOM 1182 HB VAL A 82147.762 -0.084 -5.361 1.00 0.00 H  
 ATOM 1183 1HG1 VAL A 82149.765 -1.444 -5.419 1.00 0.00 H  
 ATOM 1184 2HG1 VAL A 82148.582 -2.162 -4.327 1.00 0.00 H  
 ATOM 1185 3HG1 VAL A 82149.960 -1.275 -3.674 1.00 0.00 H  
 ATOM 1186 1HG2 VAL A 82148.172 -0.224 -2.401 1.00 0.00 H  
 ATOM 1187 2HG2 VAL A 82146.703 -0.488 -3.341 1.00 0.00 H  
 ATOM 1188 3HG2 VAL A 82147.326 1.146 -3.118 1.00 0.00 H  
 ATOM 1189 N LYS A 83147.878 2.467 -6.127 1.00 0.00 N  
 ATOM 1190 CA LYS A 83147.030 3.595 -6.496 1.00 0.00 C  
 ATOM 1191 C LYS A 83145.755 3.614 -5.663 1.00 0.00 C  
 ATOM 1192 O LYS A 83144.987 2.651 -5.660 1.00 0.00 O  
 ATOM 1193 CB LYS A 83146.683 3.532 -7.985 1.00 0.00 C  
 ATOM 1194 CG LYS A 83147.897 3.596 -8.895 1.00 0.00 C  
 ATOM 1195 CD LYS A 83147.601 2.995 -10.260 1.00 0.00 C  
 ATOM 1196 CE LYS A 83148.279 3.778 -11.373 1.00 0.00 C  
 ATOM 1197 NZ LYS A 83148.808 2.884 -12.439 1.00 0.00 N  
 ATOM 1198 H LYS A 83147.989 1.725 -6.758 1.00 0.00 H  
 ATOM 1199 HA LYS A 83147.583 4.502 -6.304 1.00 0.00 H  
 ATOM 1200 1HB LYS A 83146.160 2.608 -8.181 1.00 0.00 H  
 ATOM 1201 2HB LYS A 83146.034 4.361 -8.225 1.00 0.00 H  
 ATOM 1202 1HG LYS A 83148.185 4.629 -9.023 1.00 0.00 H  
 ATOM 1203 2HG LYS A 83148.708 3.047 -8.439 1.00 0.00 H  
 ATOM 1204 1HD LYS A 83147.961 1.977 -10.280 1.00 0.00 H  
 ATOM 1205 2HD LYS A 83146.534 3.005 -10.421 1.00 0.00 H  
 ATOM 1206 1HE LYS A 83147.559 4.455 -11.810 1.00 0.00 H  
 ATOM 1207 2HE LYS A 83149.096 4.346 -10.952 1.00 0.00 H

ATOM	1208	1HZ	LYS A	83149.205	2.020	-12.015	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.557	3.368	-12.974	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.046	2.618	-13.094	1.00	0.00	H
ATOM	1211	N	LEU A	84145.535	4.718	-4.959	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.352	4.870	-4.120	1.00	0.00	C
ATOM	1213	C	LEU A	84143.077	4.738	-4.947	1.00	0.00	C
ATOM	1214	O	LEU A	84142.063	4.234	-4.466	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.380	6.228	-3.414	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.142	6.549	-2.574	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.231	5.874	-1.214	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.985	8.054	-2.414	1.00	0.00	C
ATOM	1219	H	LEU A	84146.184	5.450	-5.003	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.368	4.087	-3.376	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.245	6.255	-2.768	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.488	6.995	-4.164	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.265	6.171	-3.077	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84144.055	6.293	-0.656	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.388	4.813	-1.349	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.310	6.034	-0.672	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.097	8.263	-1.837	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.898	8.512	-3.388	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.848	8.454	-1.904	1.00	0.00	H
ATOM	1230	N	LYS A	85143.138	5.191	-6.194	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.990	5.122	-7.089	1.00	0.00	C
ATOM	1232	C	LYS A	85141.606	3.673	-7.372	1.00	0.00	C
ATOM	1233	O	LYS A	85140.448	3.373	-7.667	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.293	5.847	-8.402	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.649	5.494	-8.994	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.650	6.623	-8.809	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.379	7.771	-9.768	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.695	9.092	-9.156	1.00	0.00	N

ATOM	1239	H	LYS A	85143.976	5.581	-6.521	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.161	5.612	-6.602	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.531	5.593	-9.125	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.267	6.912	-8.225	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.025	4.609	-8.504	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.529	5.300	-10.050	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.583	6.990	-7.796	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.645	6.241	-8.991	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.987	7.639	-10.650	1.00	0.00	H
ATOM	1248	2HE	LYS A	85143.335	7.753	-10.045	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.841	9.499	-8.724	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.048	9.748	-9.883	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.423	8.980	-8.422	1.00	0.00	H
ATOM	1252	N	SER A	86142.584	2.775	-7.280	1.00	0.00	N
ATOM	1253	CA	SER A	86142.345	1.358	-7.525	1.00	0.00	C
ATOM	1254	C	SER A	86142.297	0.580	-6.214	1.00	0.00	C
ATOM	1255	O	SER A	86142.676	-0.590	-6.160	1.00	0.00	O
ATOM	1256	CB	SER A	86143.436	0.785	-8.432	1.00	0.00	C
ATOM	1257	OG	SER A	86143.186	1.098	-9.791	1.00	0.00	O
ATOM	1258	H	SER A	86143.486	3.074	-7.041	1.00	0.00	H
ATOM	1259	HA	SER A	86141.391	1.263	-8.022	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.392	1.203	-8.149	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.467	-0.288	-8.321	1.00	0.00	H
ATOM	1262	HG	SER A	86143.785	0.598	-10.350	1.00	0.00	H
ATOM	1263	N	CYS A	87141.826	1.238	-5.159	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.728	0.608	-3.846	1.00	0.00	C
ATOM	1265	C	CYS A	87140.270	0.475	-3.416	1.00	0.00	C
ATOM	1266	O	CYS A	87139.516	1.447	-3.434	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.505	1.419	-2.808	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.295	1.167	-2.864	1.00	0.00	S
ATOM	1269	H	CYS A	87141.539	2.169	-5.264	1.00	0.00	H

ATOM 1270 HA CYS A 87142.161 -0.378 -3.918 1.00 0.00 H  
 ATOM 1271 1HB CYS A 87142.317 2.470 -2.968 1.00 0.00 H  
 ATOM 1272 2HB CYS A 87142.164 1.146 -1.820 1.00 0.00 H  
 ATOM 1273 HG CYS A 87144.701 1.992 -3.141 1.00 0.00 H  
 ATOM 1274 N ARG A 88139.880 -0.736 -3.030 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.512 -0.995 -2.595 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.430 -1.067 -1.070 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.290 -1.665 -0.424 1.00 0.00 O  
 ATOM 1278 CB ARG A 88138.000 -2.300 -3.207 1.00 0.00 C  
 ATOM 1279 CG ARG A 88137.215 -2.102 -4.496 1.00 0.00 C  
 ATOM 1280 CD ARG A 88135.847 -2.762 -4.426 1.00 0.00 C  
 ATOM 1281 NE ARG A 88135.501 -3.440 -5.673 1.00 0.00 N  
 ATOM 1282 CZ ARG A 88136.046 -4.589 -6.067 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88136.960 -5.190 -5.316 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88135.675 -5.138 -7.216 1.00 0.00 N  
 ATOM 1285 H ARG A 88140.527 -1.472 -3.037 1.00 0.00 H  
 ATOM 1286 HA ARG A 88137.897 -0.179 -2.942 1.00 0.00 H  
 ATOM 1287 1HB ARG A 88138.844 -2.940 -3.420 1.00 0.00 H  
 ATOM 1288 2HB ARG A 88137.357 -2.793 -2.491 1.00 0.00 H  
 ATOM 1289 1HG ARG A 88137.085 -1.044 -4.666 1.00 0.00 H  
 ATOM 1290 2HG ARG A 88137.773 -2.534 -5.313 1.00 0.00 H  
 ATOM 1291 1HD ARG A 88135.849 -3.484 -3.624 1.00 0.00 H  
 ATOM 1292 2HD ARG A 88135.106 -2.002 -4.223 1.00 0.00 H  
 ATOM 1293 HE ARG A 88134.829 -3.017 -6.247 1.00 0.00 H  
 ATOM 1294 1HH1 ARG A 88137.245 -4.782 -4.449 1.00 0.00 H  
 ATOM 1295 2HH1 ARG A 88137.365 -6.054 -5.618 1.00 0.00 H  
 ATOM 1296 1HH2 ARG A 88134.986 -4.690 -7.785 1.00 0.00 H  
 ATOM 1297 2HH2 ARG A 88136.084 -6.001 -7.512 1.00 0.00 H  
 ATOM 1298 N PRO A 89137.389 -0.458 -0.470 1.00 0.00 N  
 ATOM 1299 CA PRO A 89137.207 -0.463 0.985 1.00 0.00 C  
 ATOM 1300 C PRO A 89137.212 -1.874 1.563 1.00 0.00 C

ATOM	1301	O	PRO A	89136.542	-2.770	1.047	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.834	0.187	1.178	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.628	1.014	-0.042	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.314	0.280	-1.159	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.962	0.129	1.480	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.080	-0.582	1.268	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.843	0.795	2.070	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.572	1.109	-0.247	1.00	0.00	H
ATOM	1309	2HG	PRO A	89136.074	1.988	0.095	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.627	-0.400	-1.641	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.721	0.978	-1.875	1.00	0.00	H
ATOM	1312	N	ASP A	90137.971	-2.066	2.637	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.062	-3.369	3.286	1.00	0.00	C
ATOM	1314	C	ASP A	90137.194	-3.414	4.539	1.00	0.00	C
ATOM	1315	O	ASP A	90137.553	-2.852	5.574	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.515	-3.683	3.646	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.770	-5.170	3.779	1.00	0.00	C
ATOM	1318	OD1	ASP A	90138.998	-5.960	3.194	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.742	-5.547	4.466	1.00	0.00	O
ATOM	1320	H	ASP A	90138.481	-1.313	3.003	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.705	-4.112	2.588	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.163	-3.293	2.876	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.756	-3.209	4.586	1.00	0.00	H
ATOM	1324	N	SER A	91136.051	-4.083	4.438	1.00	0.00	N
ATOM	1325	CA	SER A	91135.132	-4.199	5.565	1.00	0.00	C
ATOM	1326	C	SER A	91135.319	-5.531	6.287	1.00	0.00	C
ATOM	1327	O	SER A	91134.391	-6.042	6.914	1.00	0.00	O
ATOM	1328	CB	SER A	91133.685	-4.070	5.084	1.00	0.00	C
ATOM	1329	OG	SER A	91132.862	-3.503	6.087	1.00	0.00	O
ATOM	1330	H	SER A	91135.820	-4.509	3.586	1.00	0.00	H
ATOM	1331	HA	SER A	91135.347	-3.396	6.253	1.00	0.00	H



ATOM 1332 1HB SER A 91133.654 -3.437 4.210 1.00 0.00 H  
 ATOM 1333 2HB SER A 91133.305 -5.048 4.835 1.00 0.00 H  
 ATOM 1334 HG SER A 91132.155 -4.114 6.306 1.00 0.00 H  
 ATOM 1335 N ARG A 92136.523 -6.087 6.196 1.00 0.00 N  
 ATOM 1336 CA ARG A 92136.827 -7.358 6.843 1.00 0.00 C  
 ATOM 1337 C ARG A 92136.775 -7.223 8.361 1.00 0.00 C  
 ATOM 1338 O ARG A 92136.495 -8.190 9.069 1.00 0.00 O  
 ATOM 1339 CB ARG A 92138.206 -7.857 6.410 1.00 0.00 C  
 ATOM 1340 CG ARG A 92138.174 -8.739 5.172 1.00 0.00 C  
 ATOM 1341 CD ARG A 92138.248 -10.214 5.535 1.00 0.00 C  
 ATOM 1342 NE ARG A 92136.935 -10.764 5.863 1.00 0.00 N  
 ATOM 1343 CZ ARG A 92136.749 -11.965 6.405 1.00 0.00 C  
 ATOM 1344 NH1 ARG A 92137.787 -12.744 6.682 1.00 0.00 N  
 ATOM 1345 NH2 ARG A 92135.521 -12.389 6.672 1.00 0.00 N  
 ATOM 1346 H ARG A 92137.223 -5.632 5.683 1.00 0.00 H  
 ATOM 1347 HA ARG A 92136.081 -8.074 6.531 1.00 0.00 H  
 ATOM 1348 1HB ARG A 92138.836 -7.006 6.201 1.00 0.00 H  
 ATOM 1349 2HB ARG A 92138.641 -8.425 7.219 1.00 0.00 H  
 ATOM 1350 1HG ARG A 92137.254 -8.557 4.636 1.00 0.00 H  
 ATOM 1351 2HG ARG A 92139.014 -8.489 4.541 1.00 0.00 H  
 ATOM 1352 1HD ARG A 92138.656 -10.758 4.696 1.00 0.00 H  
 ATOM 1353 2HD ARG A 92138.899 -10.328 6.388 1.00 0.00 H  
 ATOM 1354 HE ARG A 92136.150 -10.210 5.669 1.00 0.00 H  
 ATOM 1355 1HH1 ARG A 92138.716 -12.431 6.484 1.00 0.00 H  
 ATOM 1356 2HH1 ARG A 92137.641 -13.646 7.089 1.00 0.00 H  
 ATOM 1357 1HH2 ARG A 92134.735 -11.806 6.465 1.00 0.00 H  
 ATOM 1358 2HH2 ARG A 92135.380 -13.291 7.079 1.00 0.00 H  
 ATOM 1359 N PHE A 93137.048 -6.019 8.855 1.00 0.00 N  
 ATOM 1360 CA PHE A 93137.034 -5.761 10.290 1.00 0.00 C  
 ATOM 1361 C PHE A 93135.930 -4.775 10.661 1.00 0.00 C  
 ATOM 1362 O PHE A 93136.032 -4.064 11.661 1.00 0.00 O

ATOM	1363	CB	PHE A	93138.389	-5.219	10.745	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.526	-6.177	10.522	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.891	-6.553	9.239	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.229	-6.702	11.595	1.00	0.00	C
ATOM	1367	CE1	PHE A	93140.935	-7.433	9.030	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.274	-7.583	11.393	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.628	-7.948	10.109	1.00	0.00	C
ATOM	1370	H	PHE A	93137.266	-5.288	8.240	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.845	-6.699	10.792	1.00	0.00	H
ATOM	1372	1HB	PHE A	93138.608	-4.314	10.200	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.344	-4.997	11.801	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.349	-6.151	8.395	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.952	-6.416	12.599	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.209	-7.719	8.026	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.813	-7.983	12.237	1.00	0.00	H
ATOM	1378	HZ	PHE A	93142.445	-8.637	9.949	1.00	0.00	H
ATOM	1379	N	ALAA	94134.873	-4.736	9.854	1.00	0.00	N
ATOM	1380	CA	ALAA	94133.756	-3.835	10.107	1.00	0.00	C
ATOM	1381	C	ALAA	94132.757	-4.457	11.077	1.00	0.00	C
ATOM	1382	O	ALAA	94132.321	-5.594	10.889	1.00	0.00	O
ATOM	1383	CB	ALAA	94133.067	-3.468	8.802	1.00	0.00	C
ATOM	1384	H	ALAA	94134.845	-5.326	9.071	1.00	0.00	H
ATOM	1385	HA	ALAA	94134.151	-2.930	10.545	1.00	0.00	H
ATOM	1386	1HB	ALAA	94132.561	-4.335	8.406	1.00	0.00	H
ATOM	1387	2HB	ALAA	94133.804	-3.125	8.090	1.00	0.00	H
ATOM	1388	3HB	ALAA	94132.349	-2.681	8.982	1.00	0.00	H
ATOM	1389	N	SER A	95132.399	-3.706	12.113	1.00	0.00	N
ATOM	1390	CA	SER A	95131.452	-4.186	13.113	1.00	0.00	C
ATOM	1391	C	SER A	95130.078	-3.554	12.910	1.00	0.00	C
ATOM	1392	O	SER A	95129.848	-2.409	13.298	1.00	0.00	O
ATOM	1393	CB	SER A	95131.965	-3.878	14.521	1.00	0.00	C

ATOM 1394 OG SER A 95133.165 -4.580 14.792 1.00 0.00 O  
 ATOM 1395 H SER A 95132.781 -2.810 12.209 1.00 0.00 H  
 ATOM 1396 HA SER A 95131.362 -5.256 12.998 1.00 0.00 H  
 ATOM 1397 1HB SER A 95132.155 -2.819 14.609 1.00 0.00 H  
 ATOM 1398 2HB SER A 95131.219 -4.171 15.246 1.00 0.00 H  
 ATOM 1399 HG SER A 95133.818 -4.372 14.120 1.00 0.00 H  
 ATOM 1400 N LEU A 96129.170 -4.307 12.301 1.00 0.00 N  
 ATOM 1401 CA LEU A 96127.818 -3.822 12.047 1.00 0.00 C  
 ATOM 1402 C LEU A 96126.868 -4.978 11.769 1.00 0.00 C  
 ATOM 1403 O LEU A 96125.968 -5.262 12.560 1.00 0.00 O  
 ATOM 1404 CB LEU A 96127.817 -2.846 10.868 1.00 0.00 C  
 ATOM 1405 CG LEU A 96126.848 -1.671 11.002 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96127.276 -0.753 12.137 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96126.762 -0.899 9.694 1.00 0.00 C  
 ATOM 1408 H LEU A 96129.413 -5.213 12.014 1.00 0.00 H  
 ATOM 1409 HA LEU A 96127.483 -3.305 12.929 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96128.815 -2.452 10.753 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96127.560 -3.395 9.974 1.00 0.00 H  
 ATOM 1412 HG LEU A 96125.861 -2.049 11.233 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96126.400 -0.374 12.643 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96127.846 0.072 11.737 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96127.884 -1.307 12.837 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96126.248 -1.497 8.956 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96127.759 -0.675 9.343 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96126.220 0.021 9.852 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.076 -5.641 10.640 1.00 0.00 N  
 ATOM 1420 CA GLN A 97126.241 -6.771 10.249 1.00 0.00 C  
 ATOM 1421 C GLN A 97126.998 -7.707 9.308 1.00 0.00 C  
 ATOM 1422 O GLN A 97127.832 -7.264 8.518 1.00 0.00 O  
 ATOM 1423 CB GLN A 97124.960 -6.276 9.574 1.00 0.00 C  
 ATOM 1424 CG GLN A 97123.774 -6.178 10.520 1.00 0.00 C

ATOM	1425	CD	GLN A	97123.253	-7.538	10.943	1.00	0.00	C
ATOM	1426	OE1	GLN A	97122.361	-8.099	10.307	1.00	0.00	O
ATOM	1427	NE2	GLN A	97123.808	-8.075	12.023	1.00	0.00	N
ATOM	1428	H	GLN A	97127.810	-5.364	10.056	1.00	0.00	H
ATOM	1429	HA	GLN A	97125.980	-7.314	11.144	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.141	-5.296	9.157	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.700	-6.955	8.775	1.00	0.00	H
ATOM	1432	1HG	GLN A	97124.077	-5.636	11.403	1.00	0.00	H
ATOM	1433	2HG	GLN A	97122.978	-5.642	10.025	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97124.514	-7.571	12.480	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97123.490	-8.953	12.319	1.00	0.00	H
ATOM	1436	N	PRO A	98126.716	-9.019	9.381	1.00	0.00	N
ATOM	1437	CA	PRO A	98127.376	-10.016	8.532	1.00	0.00	C
ATOM	1438	C	PRO A	98127.270	-9.675	7.049	1.00	0.00	C
ATOM	1439	O	PRO A	98126.214	-9.258	6.572	1.00	0.00	O
ATOM	1440	CB	PRO A	98126.617	-11.309	8.838	1.00	0.00	C
ATOM	1441	CG	PRO A	98126.044	-11.102	10.197	1.00	0.00	C
ATOM	1442	CD	PRO A	98125.737	-9.634	10.295	1.00	0.00	C
ATOM	1443	HA	PRO A	98128.417	-10.136	8.797	1.00	0.00	H
ATOM	1444	1HB	PRO A	98125.842	-11.458	8.100	1.00	0.00	H
ATOM	1445	2HB	PRO A	98127.301	-12.145	8.822	1.00	0.00	H
ATOM	1446	1HG	PRO A	98125.141	-11.683	10.308	1.00	0.00	H
ATOM	1447	2HG	PRO A	98126.768	-11.384	10.947	1.00	0.00	H
ATOM	1448	1HD	PRO A	98124.726	-9.437	9.967	1.00	0.00	H
ATOM	1449	2HD	PRO A	98125.881	-9.285	11.307	1.00	0.00	H
ATOM	1450	N	SER A	99128.369	-9.858	6.324	1.00	0.00	N
ATOM	1451	CA	SER A	99128.399	-9.570	4.895	1.00	0.00	C
ATOM	1452	C	SER A	99128.077	-8.103	4.626	1.00	0.00	C
ATOM	1453	O	SER A	99127.588	-7.393	5.505	1.00	0.00	O
ATOM	1454	CB	SER A	99127.406	-10.466	4.153	1.00	0.00	C
ATOM	1455	OG	SER A	99127.943	-10.913	2.920	1.00	0.00	O

ATOM 1456 H SER A 99129.179 -10.193 6.762 1.00 0.00 H  
 ATOM 1457 HA SER A 99129.395 -9.779 4.536 1.00 0.00 H  
 ATOM 1458 1HB SER A 99127.175 -11.327 4.763 1.00 0.00 H  
 ATOM 1459 2HB SER A 99126.500 -9.912 3.957 1.00 0.00 H  
 ATOM 1460 HG SER A 99128.190 -10.155 2.385 1.00 0.00 H  
 ATOM 1461 N GLY A 100128.355 -7.656 3.406 1.00 0.00 N  
 ATOM 1462 CA GLY A 100128.090 -6.277 3.042 1.00 0.00 C  
 ATOM 1463 C GLY A 100126.602 -5.977 2.953 1.00 0.00 C  
 ATOM 1464 O GLY A 100125.843 -6.340 3.851 1.00 0.00 O  
 ATOM 1465 H GLY A 100128.744 -8.268 2.747 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100128.532 -5.629 3.784 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100128.546 -6.077 2.085 1.00 0.00 H  
 ATOM 1468 N PRO A 101126.151 -5.310 1.875 1.00 0.00 N  
 ATOM 1469 CA PRO A 101124.735 -4.972 1.693 1.00 0.00 C  
 ATOM 1470 C PRO A 101123.819 -6.174 1.896 1.00 0.00 C  
 ATOM 1471 O PRO A 101122.650 -6.023 2.253 1.00 0.00 O  
 ATOM 1472 CB PRO A 101124.670 -4.489 0.244 1.00 0.00 C  
 ATOM 1473 CG PRO A 101126.037 -3.973 -0.043 1.00 0.00 C  
 ATOM 1474 CD PRO A 101126.981 -4.835 0.750 1.00 0.00 C  
 ATOM 1475 HA PRO A 101124.431 -4.174 2.356 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101124.414 -5.316 -0.403 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101123.928 -3.710 0.154 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101126.247 -4.059 -1.099 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101126.115 -2.943 0.273 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101127.328 -5.664 0.151 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101127.815 -4.250 1.108 1.00 0.00 H  
 ATOM 1482 N SER A 102124.356 -7.368 1.667 1.00 0.00 N  
 ATOM 1483 CA SER A 102123.586 -8.596 1.826 1.00 0.00 C  
 ATOM 1484 C SER A 102122.398 -8.621 0.870 1.00 0.00 C  
 ATOM 1485 O SER A 102121.465 -7.828 1.002 1.00 0.00 O  
 ATOM 1486 CB SER A 102123.096 -8.734 3.269 1.00 0.00 C

ATOM 1487 OG SER A 102122.624 -10.046 3.525 1.00 0.00 O  
 ATOM 1488 H SER A 102125.293 -7.425 1.385 1.00 0.00 H  
 ATOM 1489 HA SER A 102124.235 -9.427 1.595 1.00 0.00 H  
 ATOM 1490 1HB SER A 102123.910 -8.520 3.946 1.00 0.00 H  
 ATOM 1491 2HB SER A 102122.292 -8.035 3.442 1.00 0.00 H  
 ATOM 1492 HG SER A 102122.058 -10.037 4.300 1.00 0.00 H  
 ATOM 1493 N SER A 103122.438 -9.537 -0.093 1.00 0.00 N  
 ATOM 1494 CA SER A 103121.366 -9.665 -1.072 1.00 0.00 C  
 ATOM 1495 C SER A 103120.185 -10.435 -0.487 1.00 0.00 C  
 ATOM 1496 O SER A 103119.033 -10.025 -0.627 1.00 0.00 O  
 ATOM 1497 CB SER A 103121.876 -10.370 -2.329 1.00 0.00 C  
 ATOM 1498 OG SER A 103120.830 -10.568 -3.265 1.00 0.00 O  
 ATOM 1499 H SER A 103123.209 -10.140 -0.146 1.00 0.00 H  
 ATOM 1500 HA SER A 103121.037 -8.671 -1.335 1.00 0.00 H  
 ATOM 1501 1HB SER A 103122.644 -9.767 -2.791 1.00 0.00 H  
 ATOM 1502 2HB SER A 103122.287 -11.331 -2.059 1.00 0.00 H  
 ATOM 1503 HG SER A 103120.950 -9.976 -4.010 1.00 0.00 H  
 ATOM 1504 N GLY A 104120.480 -11.552 0.168 1.00 0.00 N  
 ATOM 1505 CA GLY A 104119.434 -12.362 0.764 1.00 0.00 C  
 ATOM 1506 C GLY A 104119.128 -11.954 2.192 1.00 0.00 C  
 ATOM 1507 O GLY A 104119.791 -12.475 3.113 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104118.225 -11.113 2.389 1.00 0.00 O  
 ATOM 1509 H GLY A 104121.417 -11.830 0.247 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104118.536 -12.261 0.173 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104119.745 -13.396 0.755 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

#### Three-Dimensional Structure Coordinate Table 17

ATOM 1 N GLY A 1109.574 7.515 6.275 1.00 0.00 N  
 ATOM 2 CA GLY A 1110.983 7.839 5.923 1.00 0.00 C

ATOM 3	C	GLY A	1111.857	6.603	5.837	1.00	0.00	C
ATOM 4	O	GLY A	1111.736	5.690	6.653	1.00	0.00	O
ATOM 5	1H	GLY A	1109.009	7.388	5.412	1.00	0.00	H
ATOM 6	2H	GLY A	1109.159	8.287	6.836	1.00	0.00	H
ATOM 7	3H	GLY A	1109.537	6.638	6.833	1.00	0.00	H
ATOM 8	1HA	GLY A	1110.998	8.343	4.967	1.00	0.00	H
ATOM 9	2HA	GLY A	1111.388	8.501	6.674	1.00	0.00	H
ATOM10	N	SER A	2112.742	6.574	4.845	1.00	0.00	N
ATOM11	CA	SER A	2113.641	5.442	4.655	1.00	0.00	C
ATOM12	C	SER A	2115.081	5.913	4.477	1.00	0.00	C
ATOM13	O	SER A	2115.554	6.083	3.353	1.00	0.00	O
ATOM14	CB	SER A	2113.208	4.619	3.441	1.00	0.00	C
ATOM15	OG	SER A	2114.165	3.619	3.134	1.00	0.00	O
ATOM16	H	SER A	2112.791	7.333	4.226	1.00	0.00	H
ATOM17	HA	SER A	2113.584	4.822	5.537	1.00	0.00	H
ATOM18	1HB	SER A	2112.263	4.141	3.650	1.00	0.00	H
ATOM19	2HB	SER A	2113.100	5.272	2.587	1.00	0.00	H
ATOM20	HG	SER A	2114.942	4.028	2.745	1.00	0.00	H
ATOM21	N	SER A	3115.771	6.123	5.593	1.00	0.00	N
ATOM22	CA	SER A	3117.157	6.575	5.561	1.00	0.00	C
ATOM23	C	SER A	3118.117	5.391	5.619	1.00	0.00	C
ATOM24	O	SER A	3118.026	4.548	6.511	1.00	0.00	O
ATOM25	CB	SER A	3117.432	7.527	6.725	1.00	0.00	C
ATOM26	OG	SER A	3118.306	8.573	6.335	1.00	0.00	O
ATOM27	H	SER A	3115.338	5.970	6.459	1.00	0.00	H
ATOM28	HA	SER A	3117.312	7.102	4.632	1.00	0.00	H
ATOM29	1HB	SER A	3116.502	7.960	7.063	1.00	0.00	H
ATOM30	2HB	SER A	3117.889	6.978	7.537	1.00	0.00	H
ATOM31	HG	SER A	3119.206	8.241	6.298	1.00	0.00	H
ATOM32	N	GLY A	4119.037	5.334	4.662	1.00	0.00	N
ATOM33	CA	GLY A	4120.001	4.250	4.623	1.00	0.00	C

ATOM34	C	GLY A	4120.628	4.080	3.253	1.00	0.00	C
ATOM35	O	GLY A	4121.843	3.920	3.135	1.00	0.00	O
ATOM36	H	GLY A	4119.063	6.035	3.977	1.00	0.00	H
ATOM37	1HA	GLY A	4120.782	4.451	5.342	1.00	0.00	H
ATOM38	2HA	GLY A	4119.503	3.331	4.896	1.00	0.00	H
ATOM39	N	SER A	5119.798	4.115	2.216	1.00	0.00	N
ATOM40	CA	SER A	5120.278	3.963	0.847	1.00	0.00	C
ATOM41	C	SER A	5120.423	5.321	0.168	1.00	0.00	C
ATOM42	O	SER A	5120.246	5.441	-1.044	1.00	0.00	O
ATOM43	CB	SER A	5119.322	3.079	0.044	1.00	0.00	C
ATOM44	OG	SER A	5119.831	2.823	-1.253	1.00	0.00	O
ATOM45	H	SER A	5118.839	4.245	2.375	1.00	0.00	H
ATOM46	HA	SER A	5121.246	3.487	0.887	1.00	0.00	H
ATOM47	1HB	SER A	5119.190	2.137	0.557	1.00	0.00	H
ATOM48	2HB	SER A	5118.367	3.575	-0.048	1.00	0.00	H
ATOM49	HG	SER A	5119.113	2.852	-1.890	1.00	0.00	H
ATOM50	N	SER A	6120.749	6.340	0.957	1.00	0.00	N
ATOM51	CA	SER A	6120.918	7.689	0.431	1.00	0.00	C
ATOM52	C	SER A	6122.386	7.974	0.128	1.00	0.00	C
ATOM53	O	SER A	6123.256	7.772	0.975	1.00	0.00	O
ATOM54	CB	SER A	6120.383	8.718	1.429	1.00	0.00	C
ATOM55	OG	SER A	6119.051	8.418	1.807	1.00	0.00	O
ATOM56	H	SER A	6120.877	6.180	1.915	1.00	0.00	H
ATOM57	HA	SER A	6120.353	7.761	-0.485	1.00	0.00	H
ATOM58	1HB	SER A	6121.003	8.716	2.314	1.00	0.00	H
ATOM59	2HB	SER A	6120.404	9.699	0.976	1.00	0.00	H
ATOM60	HG	SER A	6118.527	8.244	1.021	1.00	0.00	H
ATOM61	N	GLY A	7122.652	8.444	-1.086	1.00	0.00	N
ATOM62	CA	GLY A	7124.015	8.748	-1.480	1.00	0.00	C
ATOM63	C	GLY A	7124.570	9.962	-0.761	1.00	0.00	C
ATOM64	O	GLY A	7124.094	10.326	0.314	1.00	0.00	O



ATOM65 H GLY A 7121.918 8.585 -1.720 1.00 0.00 H  
 ATOM66 1HA GLY A 7124.641 7.896 -1.260 1.00 0.00 H  
 ATOM67 2HA GLY A 7124.039 8.932 -2.545 1.00 0.00 H  
 ATOM68 N LEU A 8125.580 10.589 -1.355 1.00 0.00 N  
 ATOM69 CA LEU A 8126.204 11.769 -0.765 1.00 0.00 C  
 ATOM70 C LEU A 8126.921 11.411 0.531 1.00 0.00 C  
 ATOM71 O LEU A 8127.000 12.224 1.453 1.00 0.00 O  
 ATOM72 CB LEU A 8125.156 12.853 -0.502 1.00 0.00 C  
 ATOM73 CG LEU A 8124.251 13.182 -1.691 1.00 0.00 C  
 ATOM74 CD1 LEU A 8122.874 13.613 -1.210 1.00 0.00 C  
 ATOM75 CD2 LEU A 8124.879 14.265 -2.554 1.00 0.00 C  
 ATOM76 H LEU A 8125.917 10.249 -2.210 1.00 0.00 H  
 ATOM77 HA LEU A 8126.930 12.146 -1.470 1.00 0.00 H  
 ATOM78 1HB LEU A 8124.534 12.531 0.320 1.00 0.00 H  
 ATOM79 2HB LEU A 8125.669 13.758 -0.210 1.00 0.00 H  
 ATOM80 HG LEU A 8124.130 12.297 -2.298 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8122.440 14.294 -1.927 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8122.965 14.107 -0.254 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8122.240 12.744 -1.109 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8125.765 13.874 -3.036 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8125.150 15.108 -1.935 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8124.172 14.583 -3.305 1.00 0.00 H  
 ATOM87 N ALA A 9127.439 10.190 0.595 1.00 0.00 N  
 ATOM88 CA ALA A 9128.148 9.722 1.778 1.00 0.00 C  
 ATOM89 C ALA A 9129.632 9.527 1.487 1.00 0.00 C  
 ATOM90 O ALA A 9130.106 8.399 1.351 1.00 0.00 O  
 ATOM91 CB ALA A 9127.533 8.427 2.285 1.00 0.00 C  
 ATOM92 H ALA A 9127.342 9.588 -0.172 1.00 0.00 H  
 ATOM93 HA ALA A 9128.038 10.471 2.548 1.00 0.00 H  
 ATOM94 1HB ALA A 9127.579 8.404 3.365 1.00 0.00 H  
 ATOM95 2HB ALA A 9128.080 7.587 1.884 1.00 0.00 H

ATOM96 3HB ALA A 9126.502 8.370 1.968 1.00 0.00 H  
 ATOM97 N META 10130.362 10.634 1.394 1.00 0.00 N  
 ATOM98 CA META 10131.793 10.585 1.119 1.00 0.00 C  
 ATOM99 C META 10132.527 11.709 1.846 1.00 0.00 C  
 ATOM 100 O META 10132.855 12.735 1.249 1.00 0.00 O  
 ATOM 101 CB META 10132.050 10.683 -0.386 1.00 0.00 C  
 ATOM 102 CG META 10131.113 9.826 -1.221 1.00 0.00 C  
 ATOM 103 SD META 10131.259 10.156 -2.988 1.00 0.00 S  
 ATOM 104 CE META 10130.176 11.573 -3.159 1.00 0.00 C  
 ATOM 105 H META 10129.928 11.504 1.513 1.00 0.00 H  
 ATOM 106 HA META 10132.167 9.638 1.477 1.00 0.00 H  
 ATOM 107 1HB META 10131.932 11.712 -0.693 1.00 0.00 H  
 ATOM 108 2HB META 10133.064 10.371 -0.587 1.00 0.00 H  
 ATOM 109 1HG META 10131.343 8.786 -1.044 1.00 0.00 H  
 ATOM 110 2HG META 10130.096 10.025 -0.915 1.00 0.00 H  
 ATOM 111 1HE META 10129.599 11.695 -2.255 1.00 0.00 H  
 ATOM 112 2HE META 10129.509 11.418 -3.994 1.00 0.00 H  
 ATOM 113 3HE META 10130.769 12.460 -3.331 1.00 0.00 H  
 ATOM 114 N PRO A 11132.795 11.531 3.151 1.00 0.00 N  
 ATOM 115 CA PRO A 11133.493 12.536 3.958 1.00 0.00 C  
 ATOM 116 C PRO A 11134.868 12.891 3.391 1.00 0.00 C  
 ATOM 117 O PRO A 11135.215 14.069 3.286 1.00 0.00 O  
 ATOM 118 CB PRO A 11133.637 11.869 5.330 1.00 0.00 C  
 ATOM 119 CG PRO A 11132.591 10.807 5.358 1.00 0.00 C  
 ATOM 120 CD PRO A 11132.441 10.338 3.939 1.00 0.00 C  
 ATOM 121 HA PRO A 11132.907 13.437 4.055 1.00 0.00 H  
 ATOM 122 1HB PRO A 11134.628 11.451 5.429 1.00 0.00 H  
 ATOM 123 2HB PRO A 11133.473 12.601 6.106 1.00 0.00 H  
 ATOM 124 1HG PRO A 11132.912 9.992 5.990 1.00 0.00 H  
 ATOM 125 2HG PRO A 11131.660 11.219 5.717 1.00 0.00 H  
 ATOM 126 1HD PRO A 11133.121 9.525 3.735 1.00 0.00 H

ATOM	127	2HD	PRO A	11131.421	10.037	3.746	1.00	0.00	H
ATOM	128	N	PRO A	12135.676	11.882	3.014	1.00	0.00	N
ATOM	129	CA	PRO A	12137.010	12.110	2.462	1.00	0.00	C
ATOM	130	C	PRO A	12136.973	12.458	0.977	1.00	0.00	C
ATOM	131	O	PRO A	12137.853	13.154	0.470	1.00	0.00	O
ATOM	132	CB	PRO A	12137.703	10.768	2.679	1.00	0.00	C
ATOM	133	CG	PRO A	12136.606	9.762	2.590	1.00	0.00	C
ATOM	134	CD	PRO A	12135.358	10.441	3.100	1.00	0.00	C
ATOM	135	HA	PRO A	12137.538	12.883	3.000	1.00	0.00	H
ATOM	136	1HB	PRO A	12138.447	10.614	1.912	1.00	0.00	H
ATOM	137	2HB	PRO A	12138.172	10.754	3.653	1.00	0.00	H
ATOM	138	1HG	PRO A	12136.473	9.458	1.563	1.00	0.00	H
ATOM	139	2HG	PRO A	12136.843	8.907	3.206	1.00	0.00	H
ATOM	140	1HD	PRO A	12134.516	10.195	2.468	1.00	0.00	H
ATOM	141	2HD	PRO A	12135.162	10.148	4.119	1.00	0.00	H
ATOM	142	N	GLY A	13135.948	11.969	0.286	1.00	0.00	N
ATOM	143	CA	GLY A	13135.814	12.240	-1.134	1.00	0.00	C
ATOM	144	C	GLY A	13136.106	11.020	-1.986	1.00	0.00	C
ATOM	145	O	GLY A	13136.549	11.144	-3.128	1.00	0.00	O
ATOM	146	H	GLY A	13135.277	11.422	0.744	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.806	12.572	-1.333	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.502	13.027	-1.405	1.00	0.00	H
ATOM	149	N	ASN A	14135.856	9.839	-1.429	1.00	0.00	N
ATOM	150	CA	ASN A	14136.095	8.591	-2.146	1.00	0.00	C
ATOM	151	C	ASN A	14134.797	7.810	-2.324	1.00	0.00	C
ATOM	152	O	ASN A	14133.725	8.271	-1.933	1.00	0.00	O
ATOM	153	CB	ASN A	14137.118	7.736	-1.395	1.00	0.00	C
ATOM	154	CG	ASN A	14138.547	8.090	-1.762	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.983	7.867	-2.891	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.282	8.643	-0.805	1.00	0.00	N
ATOM	157	H	ASN A	14135.504	9.806	-0.516	1.00	0.00	H

ATOM	158	HA	ASN A	14136.490	8.838	-3.120	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.991	7.884	-0.334	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.951	6.695	-1.633	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.869	8.790	0.071	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.209	8.881	-1.015	1.00	0.00	H
ATOM	163	N	SER A	15134.902	6.626	-2.919	1.00	0.00	N
ATOM	164	CA	SER A	15133.735	5.781	-3.150	1.00	0.00	C
ATOM	165	C	SER A	15133.058	5.418	-1.833	1.00	0.00	C
ATOM	166	O	SER A	15131.832	5.463	-1.721	1.00	0.00	O
ATOM	167	CB	SER A	15134.141	4.509	-3.896	1.00	0.00	C
ATOM	168	OG	SER A	15135.366	3.996	-3.402	1.00	0.00	O
ATOM	169	H	SER A	15135.784	6.313	-3.209	1.00	0.00	H
ATOM	170	HA	SER A	15133.038	6.338	-3.758	1.00	0.00	H
ATOM	171	1HB	SER A	15133.375	3.759	-3.768	1.00	0.00	H
ATOM	172	2HB	SER A	15134.256	4.732	-4.947	1.00	0.00	H
ATOM	173	HG	SER A	15136.091	4.319	-3.944	1.00	0.00	H
ATOM	174	N	HIS A	16133.863	5.058	-0.838	1.00	0.00	N
ATOM	175	CA	HIS A	16133.341	4.686	0.472	1.00	0.00	C
ATOM	176	C	HIS A	16134.065	5.445	1.580	1.00	0.00	C
ATOM	177	O	HIS A	16133.516	6.377	2.169	1.00	0.00	O
ATOM	178	CB	HIS A	16133.483	3.180	0.692	1.00	0.00	C
ATOM	179	CG	HIS A	16132.282	2.396	0.262	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.541	1.618	1.126	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.693	2.273	-0.952	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.548	1.051	0.464	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.618	1.432	-0.798	1.00	0.00	N
ATOM	184	H	HIS A	16134.832	5.042	-0.989	1.00	0.00	H
ATOM	185	HA	HIS A	16132.294	4.948	0.497	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.332	2.819	0.131	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.645	2.990	1.743	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.716	1.500	2.082	1.00	0.00	H

ATOM	189	HD2 HIS A	16132.008	2.749	-1.869	1.00	0.00	H
ATOM	190	HE1 HIS A	16129.806	0.388	0.884	1.00	0.00	H
ATOM	191	HE2 HIS A	16129.951	1.229	-1.486	1.00	0.00	H
ATOM	192	N GLY A	17135.299	5.039	1.859	1.00	0.00	N
ATOM	193	CA GLY A	17136.077	5.691	2.896	1.00	0.00	C
ATOM	194	C GLY A	17137.419	5.024	3.121	1.00	0.00	C
ATOM	195	O GLY A	17137.615	4.326	4.115	1.00	0.00	O
ATOM	196	H GLY A	17135.685	4.290	1.358	1.00	0.00	H
ATOM	197	1HA GLY A	17136.242	6.720	2.614	1.00	0.00	H
ATOM	198	2HA GLY A	17135.517	5.667	3.820	1.00	0.00	H
ATOM	199	N LEU A	18138.347	5.239	2.194	1.00	0.00	N
ATOM	200	CA LEU A	18139.679	4.652	2.295	1.00	0.00	C
ATOM	201	C LEU A	18140.695	5.688	2.766	1.00	0.00	C
ATOM	202	O LEU A	18141.140	6.534	1.990	1.00	0.00	O
ATOM	203	CB LEU A	18140.110	4.076	0.944	1.00	0.00	C
ATOM	204	CG LEU A	18139.159	3.035	0.352	1.00	0.00	C
ATOM	205	CD1 LEU A	18139.352	2.932	-1.153	1.00	0.00	C
ATOM	206	CD2 LEU A	18139.374	1.682	1.014	1.00	0.00	C
ATOM	207	H LEU A	18138.131	5.804	1.424	1.00	0.00	H
ATOM	208	HA LEU A	18139.635	3.854	3.019	1.00	0.00	H
ATOM	209	1HB LEU A	18140.201	4.892	0.242	1.00	0.00	H
ATOM	210	2HB LEU A	18141.080	3.618	1.066	1.00	0.00	H
ATOM	211	HG LEU A	18138.140	3.341	0.537	1.00	0.00	H
ATOM	212	1HD1 LEU A	18140.299	2.457	-1.363	1.00	0.00	H
ATOM	213	2HD1 LEU A	18139.342	3.921	-1.586	1.00	0.00	H
ATOM	214	3HD1 LEU A	18138.553	2.344	-1.578	1.00	0.00	H
ATOM	215	1HD2 LEU A	18139.165	1.761	2.069	1.00	0.00	H
ATOM	216	2HD2 LEU A	18140.398	1.371	0.871	1.00	0.00	H
ATOM	217	3HD2 LEU A	18138.711	0.955	0.568	1.00	0.00	H
ATOM	218	N GLU A	19141.056	5.617	4.043	1.00	0.00	N
ATOM	219	CA GLU A	19142.020	6.550	4.617	1.00	0.00	C

ATOM	220	C	GLU A	19143.024	5.818	5.502	1.00	0.00	C
ATOM	221	O	GLU A	19142.907	4.614	5.728	1.00	0.00	O
ATOM	222	CB	GLU A	19141.298	7.627	5.429	1.00	0.00	C
ATOM	223	CG	GLU A	19140.306	7.067	6.435	1.00	0.00	C
ATOM	224	CD	GLU A	19139.750	8.132	7.360	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.254	9.159	6.851	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.812	7.939	8.592	1.00	0.00	O
ATOM	227	H	GLU A	19140.667	4.922	4.612	1.00	0.00	H
ATOM	228	HA	GLU A	19142.551	7.020	3.803	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.032	8.210	5.965	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.762	8.274	4.750	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.485	6.614	5.900	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.803	6.316	7.032	1.00	0.00	H
ATOM	233	N	VAL A	20144.012	6.554	6.001	1.00	0.00	N
ATOM	234	CA	VAL A	20145.037	5.976	6.861	1.00	0.00	C
ATOM	235	C	VAL A	20144.422	5.372	8.118	1.00	0.00	C
ATOM	236	O	VAL A	20143.522	5.956	8.724	1.00	0.00	O
ATOM	237	CB	VAL A	20146.085	7.028	7.270	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.242	6.371	8.007	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.583	7.788	6.051	1.00	0.00	C
ATOM	240	H	VAL A	20144.052	7.509	5.785	1.00	0.00	H
ATOM	241	HA	VAL A	20145.537	5.196	6.306	1.00	0.00	H
ATOM	242	HB	VAL A	20145.616	7.733	7.941	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.951	6.169	9.027	1.00	0.00	H
ATOM	244	2HG1	VAL A	20148.095	7.033	8.000	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.502	5.444	7.516	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.614	8.072	6.200	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.983	8.674	5.910	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.506	7.157	5.177	1.00	0.00	H
ATOM	249	N	GLY A	21144.912	4.199	8.507	1.00	0.00	N
ATOM	250	CA	GLY A	21144.398	3.536	9.691	1.00	0.00	C

ATOM	251	C	GLY A	21143.343	2.498	9.363	1.00	0.00	C
ATOM	252	O	GLY A	21143.183	1.516	10.089	1.00	0.00	O
ATOM	253	H	GLY A	21145.628	3.781	7.985	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.216	3.053	10.204	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.965	4.278	10.346	1.00	0.00	H
ATOM	256	N	SER A	22142.624	2.712	8.267	1.00	0.00	N
ATOM	257	CA	SER A	22141.580	1.786	7.844	1.00	0.00	C
ATOM	258	C	SER A	22142.140	0.728	6.899	1.00	0.00	C
ATOM	259	O	SER A	22143.122	0.967	6.197	1.00	0.00	O
ATOM	260	CB	SER A	22140.442	2.546	7.160	1.00	0.00	C
ATOM	261	OG	SER A	22139.581	3.144	8.115	1.00	0.00	O
ATOM	262	H	SER A	22142.800	3.512	7.728	1.00	0.00	H
ATOM	263	HA	SER A	22141.194	1.297	8.725	1.00	0.00	H
ATOM	264	1HB	SER A	22140.855	3.322	6.533	1.00	0.00	H
ATOM	265	2HB	SER A	22139.867	1.861	6.554	1.00	0.00	H
ATOM	266	HG	SER A	22138.759	3.401	7.688	1.00	0.00	H
ATOM	267	N	LEU A	23141.508	-0.441	6.887	1.00	0.00	N
ATOM	268	CA	LEU A	23141.944	-1.537	6.028	1.00	0.00	C
ATOM	269	C	LEU A	23141.337	-1.410	4.634	1.00	0.00	C
ATOM	270	O	LEU A	23140.240	-0.875	4.471	1.00	0.00	O
ATOM	271	CB	LEU A	23141.557	-2.882	6.645	1.00	0.00	C
ATOM	272	CG	LEU A	23142.098	-3.128	8.055	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.202	-4.096	8.810	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.524	-3.655	7.992	1.00	0.00	C
ATOM	275	H	LEU A	23140.732	-0.571	7.470	1.00	0.00	H
ATOM	276	HA	LEU A	23143.019	-1.485	5.944	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.478	-2.940	6.680	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.921	-3.668	6.001	1.00	0.00	H
ATOM	279	HG	LEU A	23142.111	-2.193	8.597	1.00	0.00	H
ATOM	280	1HD1	LEU A	23141.188	-3.833	9.857	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.582	-5.102	8.696	1.00	0.00	H

ATOM	282	3HD1	LEU A	23140.200	-4.045	8.411	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.988	-3.331	7.072	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.510	-4.735	8.027	1.00	0.00	H
ATOM	285	3HD2	LEU A	23144.086	-3.275	8.832	1.00	0.00	H
ATOM	286	N	ALA A	24142.058	-1.903	3.633	1.00	0.00	N
ATOM	287	CA	ALA A	24141.590	-1.844	2.253	1.00	0.00	C
ATOM	288	C	ALA A	24142.214	-2.954	1.413	1.00	0.00	C
ATOM	289	O	ALA A	24143.288	-3.460	1.736	1.00	0.00	O
ATOM	290	CB	ALA A	24141.899	-0.484	1.649	1.00	0.00	C
ATOM	291	H	ALA A	24142.925	-2.317	3.826	1.00	0.00	H
ATOM	292	HA	ALA A	24140.516	-1.972	2.260	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.554	-0.456	0.626	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.967	-0.314	1.672	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.400	0.286	2.218	1.00	0.00	H
ATOM	296	N	GLU A	25141.533	-3.324	0.334	1.00	0.00	N
ATOM	297	CA	GLU A	25142.020	-4.373	-0.555	1.00	0.00	C
ATOM	298	C	GLU A	25142.225	-3.836	-1.968	1.00	0.00	C
ATOM	299	O	GLU A	25141.550	-2.897	-2.389	1.00	0.00	O
ATOM	300	CB	GLU A	25141.038	-5.547	-0.579	1.00	0.00	C
ATOM	301	CG	GLU A	25141.646	-6.840	-1.098	1.00	0.00	C
ATOM	302	CD	GLU A	25140.882	-7.413	-2.275	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.595	-6.654	-3.225	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.571	-8.623	-2.249	1.00	0.00	O
ATOM	305	H	GLU A	25140.683	-2.883	0.129	1.00	0.00	H
ATOM	306	HA	GLU A	25142.970	-4.718	-0.173	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.679	-5.720	0.424	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.202	-5.287	-1.211	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.662	-6.645	-1.410	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.648	-7.567	-0.300	1.00	0.00	H
ATOM	311	N	VAL A	26143.161	-4.437	-2.696	1.00	0.00	N
ATOM	312	CA	VAL A	26143.455	-4.018	-4.061	1.00	0.00	C



ATOM 313 C VAL A 26143.055 -5.093 -5.066 1.00 0.00 C  
 ATOM 314 O VAL A 26142.914 -6.264 -4.713 1.00 0.00 O  
 ATOM 315 CB VAL A 26144.950 -3.695 -4.240 1.00 0.00 C  
 ATOM 316 CG1 VAL A 26145.204 -3.060 -5.599 1.00 0.00 C  
 ATOM 317 CG2 VAL A 26145.438 -2.787 -3.121 1.00 0.00 C  
 ATOM 318 H VAL A 26143.667 -5.181 -2.305 1.00 0.00 H  
 ATOM 319 HA VAL A 26142.887 -3.120 -4.264 1.00 0.00 H  
 ATOM 320 HB VAL A 26145.505 -4.620 -4.190 1.00 0.00 H  
 ATOM 321 1HG1 VAL A 26145.324 -3.836 -6.341 1.00 0.00 H  
 ATOM 322 2HG1 VAL A 26146.100 -2.461 -5.555 1.00 0.00 H  
 ATOM 323 3HG1 VAL A 26144.365 -2.435 -5.865 1.00 0.00 H  
 ATOM 324 1HG2 VAL A 26145.069 -1.785 -3.283 1.00 0.00 H  
 ATOM 325 2HG2 VAL A 26146.518 -2.776 -3.111 1.00 0.00 H  
 ATOM 326 3HG2 VAL A 26145.073 -3.155 -2.173 1.00 0.00 H  
 ATOM 327 N LYS A 27142.875 -4.688 -6.319 1.00 0.00 N  
 ATOM 328 CA LYS A 27142.493 -5.618 -7.375 1.00 0.00 C  
 ATOM 329 C LYS A 27143.724 -6.147 -8.106 1.00 0.00 C  
 ATOM 330 O LYS A 27143.759 -6.193 -9.335 1.00 0.00 O  
 ATOM 331 CB LYS A 27141.548 -4.934 -8.368 1.00 0.00 C  
 ATOM 332 CG LYS A 27140.844 -5.904 -9.303 1.00 0.00 C  
 ATOM 333 CD LYS A 27139.434 -6.212 -8.828 1.00 0.00 C  
 ATOM 334 CE LYS A 27138.434 -5.194 -9.354 1.00 0.00 C  
 ATOM 335 NZ LYS A 27138.010 -5.500 -10.748 1.00 0.00 N  
 ATOM 336 H LYS A 27143.003 -3.741 -6.539 1.00 0.00 H  
 ATOM 337 HA LYS A 27141.977 -6.448 -6.915 1.00 0.00 H  
 ATOM 338 1HB LYS A 27140.797 -4.390 -7.816 1.00 0.00 H  
 ATOM 339 2HB LYS A 27142.118 -4.238 -8.967 1.00 0.00 H  
 ATOM 340 1HG LYS A 27140.793 -5.464 -10.289 1.00 0.00 H  
 ATOM 341 2HG LYS A 27141.410 -6.822 -9.345 1.00 0.00 H  
 ATOM 342 1HD LYS A 27139.151 -7.193 -9.179 1.00 0.00 H  
 ATOM 343 2HD LYS A 27139.416 -6.196 -7.748 1.00 0.00 H

ATOM	344	1HE	LYS A	27137.564	-5.199	-8.714	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.890	-4.215	-9.331	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.487	-6.399	-10.772	1.00	0.00	H
ATOM	347	2HZ	LYS A	27138.842	-5.579	-11.365	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.395	-4.743	-11.108	1.00	0.00	H
ATOM	349	N	GLU A	28144.732	-6.549	-7.338	1.00	0.00	N
ATOM	350	CA	GLU A	28145.966	-7.077	-7.909	1.00	0.00	C
ATOM	351	C	GLU A	28145.851	-8.577	-8.152	1.00	0.00	C
ATOM	352	O	GLU A	28144.929	-9.227	-7.660	1.00	0.00	O
ATOM	353	CB	GLU A	28147.146	-6.785	-6.980	1.00	0.00	C
ATOM	354	CG	GLU A	28148.392	-6.309	-7.709	1.00	0.00	C
ATOM	355	CD	GLU A	28148.913	-4.989	-7.176	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.619	-3.941	-7.790	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.615	-5.001	-6.142	1.00	0.00	O
ATOM	358	H	GLU A	28144.645	-6.489	-6.364	1.00	0.00	H
ATOM	359	HA	GLU A	28146.133	-6.581	-8.854	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.852	-6.021	-6.274	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.393	-7.685	-6.438	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.165	-7.054	-7.599	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.156	-6.188	-8.757	1.00	0.00	H
ATOM	364	N	ASN A	29146.795	-9.126	-8.913	1.00	0.00	N
ATOM	365	CA	ASN A	29146.794	-10.553	-9.214	1.00	0.00	C
ATOM	366	C	ASN A	29146.979	-11.378	-7.941	1.00	0.00	C
ATOM	367	O	ASN A	29146.210	-12.304	-7.681	1.00	0.00	O
ATOM	368	CB	ASN A	29147.889	-10.896	-10.230	1.00	0.00	C
ATOM	369	CG	ASN A	29148.012	-9.859	-11.329	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.215	-9.835	-12.268	1.00	0.00	O
ATOM	371	ND2	ASN A	29149.014	-8.995	-11.218	1.00	0.00	N
ATOM	372	H	ASN A	29147.507	-8.559	-9.277	1.00	0.00	H
ATOM	373	HA	ASN A	29145.832	-10.795	-9.643	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.837	-10.967	-9.720	1.00	0.00	H

ATOM	375	2HB	ASN A	29147.660	-11.849	-10.684	1.00	0.00	H
ATOM	376	1HD2	ASN A	29149.610	-9.074	-10.444	1.00	0.00	H
ATOM	377	2HD2	ASN A	29149.117	-8.314	-11.915	1.00	0.00	H
ATOM	378	N	PRO A	30147.999	-11.054	-7.121	1.00	0.00	N
ATOM	379	CA	PRO A	30148.264	-11.772	-5.876	1.00	0.00	C
ATOM	380	C	PRO A	30147.376	-11.290	-4.730	1.00	0.00	C
ATOM	381	O	PRO A	30147.517	-10.160	-4.262	1.00	0.00	O
ATOM	382	CB	PRO A	30149.724	-11.428	-5.596	1.00	0.00	C
ATOM	383	CG	PRO A	30149.894	-10.057	-6.150	1.00	0.00	C
ATOM	384	CD	PRO A	30148.972	-9.962	-7.340	1.00	0.00	C
ATOM	385	HA	PRO A	30148.157	-12.839	-5.999	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.906	-11.452	-4.531	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.368	-12.138	-6.094	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.620	-9.324	-5.406	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.919	-9.911	-6.460	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.477	-9.002	-7.355	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.523	-10.113	-8.254	1.00	0.00	H
ATOM	392	N	PRO A	31146.441	-12.138	-4.263	1.00	0.00	N
ATOM	393	CA	PRO A	31145.531	-11.780	-3.169	1.00	0.00	C
ATOM	394	C	PRO A	31146.277	-11.450	-1.880	1.00	0.00	C
ATOM	395	O	PRO A	31146.937	-12.308	-1.296	1.00	0.00	O
ATOM	396	CB	PRO A	31144.671	-13.035	-2.980	1.00	0.00	C
ATOM	397	CG	PRO A	31144.811	-13.798	-4.253	1.00	0.00	C
ATOM	398	CD	PRO A	31146.194	-13.502	-4.758	1.00	0.00	C
ATOM	399	HA	PRO A	31144.900	-10.945	-3.439	1.00	0.00	H
ATOM	400	1HB	PRO A	31145.039	-13.603	-2.137	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.645	-12.748	-2.805	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.699	-14.855	-4.062	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.072	-13.463	-4.965	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.906	-14.199	-4.342	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.218	-13.531	-5.836	1.00	0.00	H

ATOM	406	N	PHE A	32146.164	-10.200	-1.441	1.00	0.00	N
ATOM	407	CA	PHE A	32146.827	-9.757	-0.220	1.00	0.00	C
ATOM	408	C	PHE A	32145.940	-8.790	0.557	1.00	0.00	C
ATOM	409	O	PHE A	32145.040	-8.167	-0.007	1.00	0.00	O
ATOM	410	CB	PHE A	32148.163	-9.089	-0.551	1.00	0.00	C
ATOM	411	CG	PHE A	32148.042	-7.950	-1.523	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.547	-8.063	-2.809	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.426	-6.766	-1.152	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.439	-7.017	-3.705	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.315	-5.716	-2.044	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.821	-5.842	-3.322	1.00	0.00	C
ATOM	417	H	PHE A	32145.623	-9.562	-1.950	1.00	0.00	H
ATOM	418	HA	PHE A	32147.011	-10.627	0.392	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.600	-8.704	0.358	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.828	-9.824	-0.980	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.029	-8.982	-3.110	1.00	0.00	H
ATOM	422	HD2	PHE A	32147.030	-6.665	-0.152	1.00	0.00	H
ATOM	423	HE1	PHE A	32148.836	-7.118	-4.705	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.832	-4.799	-1.741	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.736	-5.023	-4.021	1.00	0.00	H
ATOM	426	N	TYR A	33146.199	-8.668	1.855	1.00	0.00	N
ATOM	427	CA	TYR A	33145.424	-7.777	2.709	1.00	0.00	C
ATOM	428	C	TYR A	33146.339	-6.867	3.521	1.00	0.00	C
ATOM	429	O	TYR A	33147.200	-7.339	4.265	1.00	0.00	O
ATOM	430	CB	TYR A	33144.528	-8.588	3.648	1.00	0.00	C
ATOM	431	CG	TYR A	33143.314	-9.178	2.966	1.00	0.00	C
ATOM	432	CD1	TYR A	33143.134	-10.554	2.895	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.348	-8.360	2.394	1.00	0.00	C
ATOM	434	CE1	TYR A	33142.027	-11.098	2.272	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.237	-8.896	1.771	1.00	0.00	C
ATOM	436	CZ	TYR A	33141.081	-10.264	1.712	1.00	0.00	C

ATOM	437	OH	TYR A	33139.977	-10.802	1.092	1.00	0.00	O
ATOM	438	H	TYR A	33146.930	-9.191	2.248	1.00	0.00	H
ATOM	439	HA	TYR A	33144.802	-7.166	2.073	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.101	-9.402	4.067	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.182	-7.948	4.446	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.877	-11.204	3.334	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.473	-7.288	2.441	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.904	-12.169	2.228	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.497	-8.243	1.333	1.00	0.00	H
ATOM	446	HH	TYR A	33139.667	-11.561	1.592	1.00	0.00	H
ATOM	447	N	GLY A	34146.148	-5.560	3.375	1.00	0.00	N
ATOM	448	CA	GLY A	34146.963	-4.604	4.101	1.00	0.00	C
ATOM	449	C	GLY A	34146.180	-3.374	4.517	1.00	0.00	C
ATOM	450	O	GLY A	34145.129	-3.077	3.950	1.00	0.00	O
ATOM	451	H	GLY A	34145.447	-5.242	2.768	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.358	-5.083	4.984	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.786	-4.298	3.471	1.00	0.00	H
ATOM	454	N	VAL A	35146.694	-2.658	5.512	1.00	0.00	N
ATOM	455	CA	VAL A	35146.036	-1.453	6.005	1.00	0.00	C
ATOM	456	C	VAL A	35146.677	-0.199	5.420	1.00	0.00	C
ATOM	457	O	VAL A	35147.885	-0.161	5.182	1.00	0.00	O
ATOM	458	CB	VAL A	35146.084	-1.378	7.544	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.523	-1.325	8.035	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.296	-0.177	8.047	1.00	0.00	C
ATOM	461	H	VAL A	35147.535	-2.946	5.924	1.00	0.00	H
ATOM	462	HA	VAL A	35145.001	-1.492	5.699	1.00	0.00	H
ATOM	463	HB	VAL A	35145.627	-2.272	7.942	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.534	-1.273	9.114	1.00	0.00	H
ATOM	465	2HG1	VAL A	35148.011	-0.451	7.628	1.00	0.00	H
ATOM	466	3HG1	VAL A	35148.047	-2.212	7.712	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.244	-0.331	7.857	1.00	0.00	H

ATOM	468	2HG2	VAL A	35145.629	0.712	7.532	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.457	-0.060	9.108	1.00	0.00	H
ATOM	470	N	ILE A	36145.862	0.825	5.193	1.00	0.00	N
ATOM	471	CA	ILE A	36146.350	2.082	4.638	1.00	0.00	C
ATOM	472	C	ILE A	36147.313	2.767	5.602	1.00	0.00	C
ATOM	473	O	ILE A	36147.068	2.821	6.807	1.00	0.00	O
ATOM	474	CB	ILE A	36145.190	3.044	4.313	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.139	2.340	3.452	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.713	4.288	3.611	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.949	3.213	3.118	1.00	0.00	C
ATOM	478	H	ILE A	36144.910	0.734	5.405	1.00	0.00	H
ATOM	479	HA	ILE A	36146.874	1.859	3.719	1.00	0.00	H
ATOM	480	HB	ILE A	36144.736	3.350	5.244	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.594	2.031	2.523	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.776	1.469	3.977	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.653	4.061	3.129	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.860	5.076	4.334	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.997	4.611	2.868	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.382	2.758	2.319	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.294	4.187	2.803	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.323	3.317	3.990	1.00	0.00	H
ATOM	489	N	ARG A	37148.411	3.289	5.063	1.00	0.00	N
ATOM	490	CA	ARG A	37149.412	3.968	5.877	1.00	0.00	C
ATOM	491	C	ARG A	37149.575	5.422	5.441	1.00	0.00	C
ATOM	492	O	ARG A	37149.318	6.343	6.216	1.00	0.00	O
ATOM	493	CB	ARG A	37150.755	3.242	5.782	1.00	0.00	C
ATOM	494	CG	ARG A	37150.663	1.754	6.073	1.00	0.00	C
ATOM	495	CD	ARG A	37150.046	1.488	7.437	1.00	0.00	C
ATOM	496	NE	ARG A	37150.848	2.053	8.519	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.641	1.792	9.808	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.661	0.977	10.179	1.00	0.00	N

ATOM	499	NH2	ARG A	37151.417	2.348	10.729	1.00	0.00	N
ATOM	500	H	ARG A	37148.552	3.212	4.097	1.00	0.00	H
ATOM	501	HA	ARG A	37149.075	3.949	6.902	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.150	3.369	4.784	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.440	3.684	6.490	1.00	0.00	H
ATOM	504	1HG	ARG A	37150.052	1.285	5.316	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.656	1.329	6.049	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.061	1.930	7.463	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.965	0.421	7.580	1.00	0.00	H
ATOM	508	HE	ARG A	37151.578	2.659	8.273	1.00	0.00	H
ATOM	509	1HH1	ARG A	37149.073	0.554	9.490	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.512	0.785	11.149	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.157	2.962	10.456	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.262	2.152	11.698	1.00	0.00	H
ATOM	513	N	TRP A	38150.001	5.619	4.198	1.00	0.00	N
ATOM	514	CA	TRP A	38150.198	6.962	3.664	1.00	0.00	C
ATOM	515	C	TRP A	38149.459	7.137	2.339	1.00	0.00	C
ATOM	516	O	TRP A	38149.536	6.285	1.455	1.00	0.00	O
ATOM	517	CB	TRP A	38151.692	7.247	3.473	1.00	0.00	C
ATOM	518	CG	TRP A	38151.968	8.508	2.707	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.160	9.758	3.223	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.077	8.639	1.285	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.382	10.658	2.208	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.337	9.996	1.009	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.983	7.742	0.218	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.501	10.473	-0.289	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.148	8.217	-1.070	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.403	9.572	-1.315	1.00	0.00	C
ATOM	527	H	TRP A	38150.190	4.845	3.628	1.00	0.00	H
ATOM	528	HA	TRP A	38149.797	7.665	4.379	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.160	7.337	4.441	1.00	0.00	H

ATOM	530	2HB	TRP A	38152.142	6.424	2.936	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.136	9.991	4.277	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.546	11.617	2.324	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.785	6.695	0.385	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.696	11.515	-0.494	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.076	7.538	-1.906	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.525	9.899	-2.337	1.00	0.00	H
ATOM	537	N	ILE A	39148.753	8.255	2.210	1.00	0.00	N
ATOM	538	CA	ILE A	39148.007	8.556	0.995	1.00	0.00	C
ATOM	539	C	ILE A	39148.396	9.927	0.453	1.00	0.00	C
ATOM	540	O	ILE A	39148.014	10.955	1.011	1.00	0.00	O
ATOM	541	CB	ILE A	39146.487	8.525	1.243	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.096	7.246	1.986	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.733	8.631	-0.074	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.679	7.267	2.520	1.00	0.00	C
ATOM	545	H	ILE A	39148.738	8.898	2.950	1.00	0.00	H
ATOM	546	HA	ILE A	39148.249	7.804	0.258	1.00	0.00	H
ATOM	547	HB	ILE A	39146.225	9.378	1.849	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.184	6.405	1.314	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.764	7.105	2.823	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.792	8.107	0.007	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.324	8.190	-0.864	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.549	9.671	-0.300	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.027	6.753	1.829	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.352	8.290	2.632	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.649	6.772	3.479	1.00	0.00	H
ATOM	556	N	GLY A	40149.164	9.936	-0.631	1.00	0.00	N
ATOM	557	CA	GLY A	40149.595	11.190	-1.219	1.00	0.00	C
ATOM	558	C	GLY A	40150.136	11.024	-2.625	1.00	0.00	C
ATOM	559	O	GLY A	40149.994	9.963	-3.233	1.00	0.00	O
ATOM	560	H	GLY A	40149.442	9.086	-1.033	1.00	0.00	H



ATOM	561	1HA	GLY A	40148.757	11.869	-1.246	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.366	11.617	-0.597	1.00	0.00	H
ATOM	563	N	GLN A	41150.756	12.080	-3.140	1.00	0.00	N
ATOM	564	CA	GLN A	41151.322	12.057	-4.482	1.00	0.00	C
ATOM	565	C	GLN A	41152.790	12.482	-4.457	1.00	0.00	C
ATOM	566	O	GLN A	41153.104	13.628	-4.136	1.00	0.00	O
ATOM	567	CB	GLN A	41150.525	12.986	-5.399	1.00	0.00	C
ATOM	568	CG	GLN A	41149.022	12.773	-5.320	1.00	0.00	C
ATOM	569	CD	GLN A	41148.247	14.074	-5.380	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.194	14.824	-4.405	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.642	14.349	-6.529	1.00	0.00	N
ATOM	572	H	GLN A	41150.834	12.896	-2.605	1.00	0.00	H
ATOM	573	HA	GLN A	41151.253	11.048	-4.858	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.738	14.008	-5.127	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.838	12.821	-6.419	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.714	12.152	-6.147	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.790	12.275	-4.390	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.727	13.706	-7.262	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.135	15.185	-6.596	1.00	0.00	H
ATOM	580	N	PRO A	42153.713	11.563	-4.793	1.00	0.00	N
ATOM	581	CA	PRO A	42155.152	11.857	-4.801	1.00	0.00	C
ATOM	582	C	PRO A	42155.499	13.021	-5.723	1.00	0.00	C
ATOM	583	O	PRO A	42154.732	13.362	-6.624	1.00	0.00	O
ATOM	584	CB	PRO A	42155.784	10.560	-5.316	1.00	0.00	C
ATOM	585	CG	PRO A	42154.773	9.505	-5.034	1.00	0.00	C
ATOM	586	CD	PRO A	42153.437	10.171	-5.187	1.00	0.00	C
ATOM	587	HA	PRO A	42155.516	12.068	-3.806	1.00	0.00	H
ATOM	588	1HB	PRO A	42155.979	10.649	-6.375	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.708	10.372	-4.789	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.873	8.697	-5.744	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.895	9.138	-4.025	1.00	0.00	H

ATOM	592	1HD	PRO A	42153.104	10.119	-6.214	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.710	9.720	-4.527	1.00	0.00	H
ATOM	594	N	PRO A	43156.668	13.649	-5.510	1.00	0.00	N
ATOM	595	CA	PRO A	43157.117	14.780	-6.327	1.00	0.00	C
ATOM	596	C	PRO A	43157.535	14.350	-7.728	1.00	0.00	C
ATOM	597	O	PRO A	43158.705	14.060	-7.976	1.00	0.00	O
ATOM	598	CB	PRO A	43158.320	15.319	-5.555	1.00	0.00	C
ATOM	599	CG	PRO A	43158.841	14.148	-4.797	1.00	0.00	C
ATOM	600	CD	PRO A	43157.643	13.304	-4.457	1.00	0.00	C
ATOM	601	HA	PRO A	43156.356	15.543	-6.397	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.054	15.699	-6.251	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.002	16.109	-4.892	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.531	13.589	-5.413	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.330	14.483	-3.894	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.897	12.255	-4.497	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.262	13.565	-3.481	1.00	0.00	H
ATOM	608	N	GLY A	44156.571	14.311	-8.641	1.00	0.00	N
ATOM	609	CA	GLY A	44156.860	13.916	-10.006	1.00	0.00	C
ATOM	610	C	GLY A	44155.636	13.399	-10.732	1.00	0.00	C
ATOM	611	O	GLY A	44155.325	13.848	-11.835	1.00	0.00	O
ATOM	612	H	GLY A	44155.656	14.552	-8.386	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.249	14.768	-10.541	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.611	13.139	-9.992	1.00	0.00	H
ATOM	615	N	LEU A	45154.938	12.453	-10.114	1.00	0.00	N
ATOM	616	CA	LEU A	45153.739	11.876	-10.710	1.00	0.00	C
ATOM	617	C	LEU A	45152.532	12.079	-9.803	1.00	0.00	C
ATOM	618	O	LEU A	45152.455	11.497	-8.721	1.00	0.00	O
ATOM	619	CB	LEU A	45153.945	10.384	-10.980	1.00	0.00	C
ATOM	620	CG	LEU A	45154.507	9.584	-9.802	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.156	8.109	-9.940	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.015	9.772	-9.700	1.00	0.00	C

ATOM	623	H	LEU A	45155.235	12.136	-9.233	1.00	0.00	H
ATOM	624	HA	LEU A	45153.560	12.381	-11.648	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.993	9.956	-11.260	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.626	10.281	-11.812	1.00	0.00	H
ATOM	627	HG	LEU A	45154.061	9.948	-8.886	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.472	7.828	-9.154	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.055	7.515	-9.864	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.691	7.936	-10.900	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.323	10.583	-10.343	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.513	8.863	-10.005	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.280	10.002	-8.679	1.00	0.00	H
ATOM	634	N	ASN A	46151.592	12.907	-10.245	1.00	0.00	N
ATOM	635	CA	ASN A	46150.393	13.174	-9.461	1.00	0.00	C
ATOM	636	C	ASN A	46149.458	11.971	-9.487	1.00	0.00	C
ATOM	637	O	ASN A	46148.826	11.684	-10.504	1.00	0.00	O
ATOM	638	CB	ASN A	46149.672	14.410	-10.001	1.00	0.00	C
ATOM	639	CG	ASN A	46148.921	15.162	-8.920	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.695	15.271	-8.962	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.655	15.686	-7.946	1.00	0.00	N
ATOM	642	H	ASN A	46151.705	13.344	-11.114	1.00	0.00	H
ATOM	643	HA	ASN A	46150.696	13.360	-8.440	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.398	15.079	-10.441	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.966	14.104	-10.759	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.626	15.560	-7.978	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.195	16.177	-7.233	1.00	0.00	H
ATOM	648	N	GLU A	47149.375	11.273	-8.360	1.00	0.00	N
ATOM	649	CA	GLU A	47148.517	10.100	-8.245	1.00	0.00	C
ATOM	650	C	GLU A	47148.358	9.687	-6.788	1.00	0.00	C
ATOM	651	O	GLU A	47149.340	9.386	-6.109	1.00	0.00	O
ATOM	652	CB	GLU A	47149.090	8.936	-9.059	1.00	0.00	C
ATOM	653	CG	GLU A	47150.606	8.836	-9.007	1.00	0.00	C

ATOM	654	CD	GLU A	47151.170	7.964	-10.111	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.265	8.447	-11.259	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.518	6.798	-9.829	1.00	0.00	O
ATOM	657	H	GLU A	47149.904	11.554	-7.586	1.00	0.00	H
ATOM	658	HA	GLU A	47147.546	10.361	-8.641	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.677	8.012	-8.681	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.794	9.054	-10.092	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.022	9.826	-9.104	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.895	8.417	-8.054	1.00	0.00	H
ATOM	663	N	VAL A	48147.119	9.669	-6.309	1.00	0.00	N
ATOM	664	CA	VAL A	48146.847	9.284	-4.931	1.00	0.00	C
ATOM	665	C	VAL A	48147.245	7.832	-4.688	1.00	0.00	C
ATOM	666	O	VAL A	48146.514	6.909	-5.044	1.00	0.00	O
ATOM	667	CB	VAL A	48145.358	9.463	-4.578	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.132	9.251	-3.089	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.870	10.838	-5.008	1.00	0.00	C
ATOM	670	H	VAL A	48146.374	9.913	-6.896	1.00	0.00	H
ATOM	671	HA	VAL A	48147.431	9.921	-4.283	1.00	0.00	H
ATOM	672	HB	VAL A	48144.790	8.718	-5.116	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.196	8.197	-2.862	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.155	9.619	-2.817	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.887	9.785	-2.531	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.583	11.587	-4.697	1.00	0.00	H
ATOM	677	2HG2	VAL A	48143.913	11.039	-4.551	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.768	10.863	-6.084	1.00	0.00	H
ATOM	679	N	LEU A	49148.412	7.639	-4.082	1.00	0.00	N
ATOM	680	CA	LEU A	49148.909	6.298	-3.795	1.00	0.00	C
ATOM	681	C	LEU A	49148.806	5.992	-2.307	1.00	0.00	C
ATOM	682	O	LEU A	49149.482	6.612	-1.487	1.00	0.00	O
ATOM	683	CB	LEU A	49150.361	6.161	-4.258	1.00	0.00	C
ATOM	684	CG	LEU A	49150.589	6.388	-5.753	1.00	0.00	C

ATOM	685	CD1	LEU A	49152.051	6.701	-6.028	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.143	5.171	-6.550	1.00	0.00	C
ATOM	687	H	LEU A	49148.952	8.414	-3.822	1.00	0.00	H
ATOM	688	HA	LEU A	49148.297	5.595	-4.340	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.960	6.873	-3.710	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.701	5.165	-4.012	1.00	0.00	H
ATOM	691	HG	LEU A	49150.000	7.234	-6.075	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.506	7.107	-5.136	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.121	7.424	-6.827	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.566	5.796	-6.314	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.286	4.281	-5.957	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.729	5.100	-7.455	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.098	5.270	-6.805	1.00	0.00	H
ATOM	698	N	ALAA	50147.955	5.032	-1.965	1.00	0.00	N
ATOM	699	CA	ALAA	50147.766	4.646	-0.575	1.00	0.00	C
ATOM	700	C	ALAA	50148.688	3.492	-0.197	1.00	0.00	C
ATOM	701	O	ALAA	50148.560	2.385	-0.721	1.00	0.00	O
ATOM	702	CB	ALAA	50146.314	4.271	-0.323	1.00	0.00	C
ATOM	703	H	ALAA	50147.443	4.573	-2.664	1.00	0.00	H
ATOM	704	HA	ALAA	50148.005	5.502	0.040	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.677	4.830	-0.991	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.055	4.501	0.700	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.180	3.214	-0.499	1.00	0.00	H
ATOM	708	N	GLYA	51149.617	3.758	0.715	1.00	0.00	N
ATOM	709	CA	GLYA	51150.547	2.730	1.147	1.00	0.00	C
ATOM	710	C	GLYA	51149.894	1.695	2.041	1.00	0.00	C
ATOM	711	O	GLYA	51149.642	1.952	3.217	1.00	0.00	O
ATOM	712	H	GLYA	51149.673	4.658	1.099	1.00	0.00	H
ATOM	713	1HA	GLYA	51150.950	2.235	0.276	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.357	3.197	1.688	1.00	0.00	H
ATOM	715	N	LEU A	52149.620	0.522	1.481	1.00	0.00	N

ATOM	716	CA	LEU A	52148.992	-0.557	2.237	1.00	0.00	C
ATOM	717	C	LEU A	52150.042	-1.428	2.917	1.00	0.00	C
ATOM	718	O	LEU A	52151.004	-1.867	2.284	1.00	0.00	O
ATOM	719	CB	LEU A	52148.119	-1.412	1.316	1.00	0.00	C
ATOM	720	CG	LEU A	52146.962	-0.670	0.645	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.299	-1.550	-0.403	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.948	-0.218	1.685	1.00	0.00	C
ATOM	723	H	LEU A	52149.846	0.377	0.539	1.00	0.00	H
ATOM	724	HA	LEU A	52148.367	-0.108	2.995	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.750	-1.828	0.543	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.708	-2.224	1.897	1.00	0.00	H
ATOM	727	HG	LEU A	52147.347	0.209	0.147	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.535	-2.153	0.066	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.040	-2.194	-0.852	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.851	-0.929	-1.164	1.00	0.00	H
ATOM	731	1HD2	LEU A	52144.961	-0.209	1.245	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.198	0.776	2.025	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.962	-0.899	2.523	1.00	0.00	H
ATOM	734	N	GLU A	53149.852	-1.676	4.208	1.00	0.00	N
ATOM	735	CA	GLU A	53150.784	-2.496	4.974	1.00	0.00	C
ATOM	736	C	GLU A	53150.285	-3.933	5.078	1.00	0.00	C
ATOM	737	O	GLU A	53149.303	-4.212	5.765	1.00	0.00	O
ATOM	738	CB	GLU A	53150.979	-1.910	6.374	1.00	0.00	C
ATOM	739	CG	GLU A	53151.968	-2.688	7.226	1.00	0.00	C
ATOM	740	CD	GLU A	53151.516	-2.822	8.667	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.666	-2.016	9.100	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.011	-3.734	9.363	1.00	0.00	O
ATOM	743	H	GLU A	53149.067	-1.298	4.657	1.00	0.00	H
ATOM	744	HA	GLU A	53151.731	-2.492	4.457	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.339	-0.896	6.280	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.027	-1.899	6.884	1.00	0.00	H

ATOM	747	1HG	GLU A	53152.084	-3.678	6.809	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.920	-2.177	7.209	1.00	0.00	H
ATOM	749	N	LEU A	54150.969	-4.842	4.392	1.00	0.00	N
ATOM	750	CA	LEU A	54150.595	-6.252	4.406	1.00	0.00	C
ATOM	751	C	LEU A	54150.871	-6.873	5.772	1.00	0.00	C
ATOM	752	O	LEU A	54151.878	-6.569	6.412	1.00	0.00	O
ATOM	753	CB	LEU A	54151.358	-7.014	3.322	1.00	0.00	C
ATOM	754	CG	LEU A	54151.330	-6.371	1.935	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.538	-6.804	1.120	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.040	-6.724	1.210	1.00	0.00	C
ATOM	757	H	LEU A	54151.744	-4.559	3.863	1.00	0.00	H
ATOM	758	HA	LEU A	54149.537	-6.317	4.202	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.389	-7.106	3.633	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.935	-8.005	3.243	1.00	0.00	H
ATOM	761	HG	LEU A	54151.369	-5.296	2.044	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.298	-7.701	0.569	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.367	-7.000	1.783	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.807	-6.018	0.429	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.219	-7.555	0.543	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.701	-5.872	0.640	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.284	-6.998	1.932	1.00	0.00	H
ATOM	768	N	GLU A	55149.969	-7.744	6.213	1.00	0.00	N
ATOM	769	CA	GLU A	55150.115	-8.408	7.502	1.00	0.00	C
ATOM	770	C	GLU A	55151.256	-9.421	7.467	1.00	0.00	C
ATOM	771	O	GLU A	55151.917	-9.662	8.478	1.00	0.00	O
ATOM	772	CB	GLU A	55148.811	-9.106	7.891	1.00	0.00	C
ATOM	773	CG	GLU A	55147.605	-8.182	7.893	1.00	0.00	C
ATOM	774	CD	GLU A	55147.676	-7.132	8.984	1.00	0.00	C
ATOM	775	OE1	GLU A	55148.644	-6.343	8.985	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.764	-7.098	9.837	1.00	0.00	O
ATOM	777	H	GLU A	55149.187	-7.945	5.658	1.00	0.00	H

ATOM	778	HA	GLU A	55150.343	-7.653	8.240	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.623	-9.908	7.193	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.920	-9.522	8.882	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.547	-7.682	6.937	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.713	-8.775	8.042	1.00	0.00	H
ATOM	783	N	ASP A	56151.481	-10.011	6.299	1.00	0.00	N
ATOM	784	CA	ASP A	56152.542	-10.999	6.133	1.00	0.00	C
ATOM	785	C	ASP A	56153.771	-10.371	5.482	1.00	0.00	C
ATOM	786	O	ASP A	56153.657	-9.601	4.530	1.00	0.00	O
ATOM	787	CB	ASP A	56152.046	-12.173	5.287	1.00	0.00	C
ATOM	788	CG	ASP A	56150.859	-12.877	5.915	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.718	-12.411	5.716	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.072	-13.896	6.606	1.00	0.00	O
ATOM	791	H	ASP A	56150.920	-9.778	5.530	1.00	0.00	H
ATOM	792	HA	ASP A	56152.813	-11.361	7.112	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.752	-11.809	4.314	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.847	-12.889	5.172	1.00	0.00	H
ATOM	795	N	GLU A	57154.946	-10.710	6.003	1.00	0.00	N
ATOM	796	CA	GLU A	57156.197	-10.180	5.472	1.00	0.00	C
ATOM	797	C	GLU A	57156.579	-10.884	4.174	1.00	0.00	C
ATOM	798	O	GLU A	57157.219	-11.935	4.192	1.00	0.00	O
ATOM	799	CB	GLU A	57157.319	-10.339	6.501	1.00	0.00	C
ATOM	800	CG	GLU A	57157.144	-9.464	7.732	1.00	0.00	C
ATOM	801	CD	GLU A	57158.307	-9.580	8.697	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.104	-9.322	9.903	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.419	-9.929	8.250	1.00	0.00	O
ATOM	804	H	GLU A	57154.973	-11.329	6.762	1.00	0.00	H
ATOM	805	HA	GLU A	57156.053	-9.129	5.270	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.356	-11.370	6.820	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.258	-10.083	6.034	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.059	-8.435	7.417	1.00	0.00	H



ATOM	809	2HG	GLU A	57156.240	-9.760	8.242	1.00	0.00	H
ATOM	810	N	CYS A	58156.180	-10.298	3.050	1.00	0.00	N
ATOM	811	CA	CYS A	58156.480	-10.869	1.743	1.00	0.00	C
ATOM	812	C	CYS A	58157.720	-10.220	1.137	1.00	0.00	C
ATOM	813	O	CYS A	58157.783	-9.000	0.984	1.00	0.00	O
ATOM	814	CB	CYS A	58155.287	-10.694	0.801	1.00	0.00	C
ATOM	815	SG	CYS A	58155.023	-12.087	-0.321	1.00	0.00	S
ATOM	816	H	CYS A	58155.672	-9.462	3.102	1.00	0.00	H
ATOM	817	HA	CYS A	58156.669	-11.923	1.877	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.390	-10.572	1.388	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.439	-9.811	0.199	1.00	0.00	H
ATOM	820	HG	CYS A	58155.638	-11.999	-1.053	1.00	0.00	H
ATOM	821	N	ALAA	59158.705	-11.043	0.793	1.00	0.00	N
ATOM	822	CA	ALAA	59159.943	-10.550	0.204	1.00	0.00	C
ATOM	823	C	ALAA	59159.673	-9.817	-1.106	1.00	0.00	C
ATOM	824	O	ALAA	59159.065	-10.366	-2.023	1.00	0.00	O
ATOM	825	CB	ALAA	59160.914	-11.699	-0.023	1.00	0.00	C
ATOM	826	H	ALAA	59158.596	-12.007	0.939	1.00	0.00	H
ATOM	827	HA	ALAA	59160.394	-9.862	0.904	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.882	-11.305	-0.291	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.547	-12.328	-0.821	1.00	0.00	H
ATOM	830	3HB	ALAA	59161.000	-12.281	0.882	1.00	0.00	H
ATOM	831	N	GLY A	60160.131	-8.571	-1.185	1.00	0.00	N
ATOM	832	CA	GLY A	60159.930	-7.782	-2.386	1.00	0.00	C
ATOM	833	C	GLY A	60159.482	-6.366	-2.081	1.00	0.00	C
ATOM	834	O	GLY A	60159.770	-5.441	-2.841	1.00	0.00	O
ATOM	835	H	GLY A	60160.610	-8.184	-0.422	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.857	-7.744	-2.938	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.179	-8.262	-2.997	1.00	0.00	H
ATOM	838	N	CYS A	61158.776	-6.197	-0.969	1.00	0.00	N
ATOM	839	CA	CYS A	61158.287	-4.884	-0.566	1.00	0.00	C

ATOM	840	C	CYS A	61159.295	-4.182	0.338	1.00	0.00	C
ATOM	841	O	CYS A	61160.328	-4.750	0.692	1.00	0.00	O
ATOM	842	CB	CYS A	61156.944	-5.014	0.154	1.00	0.00	C
ATOM	843	SG	CYS A	61155.715	-5.985	-0.749	1.00	0.00	S
ATOM	844	H	CYS A	61158.578	-6.973	-0.405	1.00	0.00	H
ATOM	845	HA	CYS A	61158.151	-4.292	-1.460	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.101	-5.492	1.109	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.533	-4.028	0.313	1.00	0.00	H
ATOM	848	HG	CYS A	61156.157	-6.409	-1.489	1.00	0.00	H
ATOM	849	N	THR A	62158.989	-2.942	0.708	1.00	0.00	N
ATOM	850	CA	THR A	62159.869	-2.162	1.571	1.00	0.00	C
ATOM	851	C	THR A	62159.294	-2.056	2.979	1.00	0.00	C
ATOM	852	O	THR A	62158.319	-2.728	3.315	1.00	0.00	O
ATOM	853	CB	THR A	62160.082	-0.764	0.987	1.00	0.00	C
ATOM	854	OG1	THR A	62158.912	0.020	1.126	1.00	0.00	O
ATOM	855	CG2	THR A	62160.453	-0.778	-0.480	1.00	0.00	C
ATOM	856	H	THR A	62158.152	-2.542	0.392	1.00	0.00	H
ATOM	857	HA	THR A	62160.820	-2.671	1.620	1.00	0.00	H
ATOM	858	HB	THR A	62160.883	-0.280	1.527	1.00	0.00	H
ATOM	859	HG1	THR A	62158.171	-0.431	0.713	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.140	-1.591	-0.670	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.923	0.157	-0.741	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.563	-0.914	-1.076	1.00	0.00	H
ATOM	863	N	ASP A	63159.903	-1.205	3.799	1.00	0.00	N
ATOM	864	CA	ASP A	63159.452	-1.010	5.172	1.00	0.00	C
ATOM	865	C	ASP A	63158.724	0.321	5.321	1.00	0.00	C
ATOM	866	O	ASP A	63158.778	0.956	6.375	1.00	0.00	O
ATOM	867	CB	ASP A	63160.640	-1.066	6.134	1.00	0.00	C
ATOM	868	CG	ASP A	63161.735	-0.087	5.758	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.819	-0.542	5.339	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.507	1.135	5.882	1.00	0.00	O

ATOM	871	H	ASPA	63160.675	-0.697	3.472	1.00	0.00	H
ATOM	872	HA	ASPA	63158.767	-1.810	5.412	1.00	0.00	H
ATOM	873	1HB	ASPA	63160.299	-0.830	7.131	1.00	0.00	H
ATOM	874	2HB	ASPA	63161.055	-2.063	6.126	1.00	0.00	H
ATOM	875	N	GLYA	64158.042	0.739	4.259	1.00	0.00	N
ATOM	876	CA	GLYA	64157.313	1.993	4.292	1.00	0.00	C
ATOM	877	C	GLYA	64157.989	3.080	3.479	1.00	0.00	C
ATOM	878	O	GLYA	64157.932	4.257	3.834	1.00	0.00	O
ATOM	879	H	GLYA	64158.035	0.191	3.446	1.00	0.00	H
ATOM	880	1HA	GLYA	64156.320	1.829	3.899	1.00	0.00	H
ATOM	881	2HA	GLYA	64157.232	2.323	5.317	1.00	0.00	H
ATOM	882	N	THRA	65158.632	2.684	2.386	1.00	0.00	N
ATOM	883	CA	THRA	65159.323	3.632	1.520	1.00	0.00	C
ATOM	884	C	THRA	65158.901	3.449	0.066	1.00	0.00	C
ATOM	885	O	THRA	65158.941	2.340	-0.468	1.00	0.00	O
ATOM	886	CB	THRA	65160.838	3.462	1.649	1.00	0.00	C
ATOM	887	OG1	THRA	65161.238	2.179	1.200	1.00	0.00	O
ATOM	888	CG2	THRA	65161.341	3.629	3.066	1.00	0.00	C
ATOM	889	H	THRA	65158.642	1.731	2.156	1.00	0.00	H
ATOM	890	HA	THRA	65159.054	4.628	1.838	1.00	0.00	H
ATOM	891	HB	THRA	65161.327	4.204	1.034	1.00	0.00	H
ATOM	892	HG1	THRA	65160.989	2.069	0.279	1.00	0.00	H
ATOM	893	1HG2	THRA	65162.251	4.211	3.058	1.00	0.00	H
ATOM	894	2HG2	THRA	65161.536	2.659	3.496	1.00	0.00	H
ATOM	895	3HG2	THRA	65160.594	4.140	3.656	1.00	0.00	H
ATOM	896	N	PHEA	66158.496	4.543	-0.570	1.00	0.00	N
ATOM	897	CA	PHEA	66158.066	4.504	-1.963	1.00	0.00	C
ATOM	898	C	PHEA	66159.056	5.241	-2.859	1.00	0.00	C
ATOM	899	O	PHEA	66159.184	6.463	-2.785	1.00	0.00	O
ATOM	900	CB	PHEA	66156.674	5.121	-2.107	1.00	0.00	C
ATOM	901	CG	PHEA	66156.062	4.914	-3.462	1.00	0.00	C

ATOM	902	CD1	PHE A	66155.962	3.642	-4.005	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.588	5.989	-4.195	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.399	3.448	-5.252	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.025	5.802	-5.443	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.931	4.530	-5.972	1.00	0.00	C
ATOM	907	H	PHE A	66158.487	5.398	-0.090	1.00	0.00	H
ATOM	908	HA	PHE A	66158.025	3.469	-2.268	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.015	4.679	-1.374	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.739	6.185	-1.929	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.328	2.796	-3.442	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.662	6.985	-3.783	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.328	2.452	-5.663	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.659	6.649	-6.004	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.491	4.381	-6.948	1.00	0.00	H
ATOM	916	N	ARG A	67159.755	4.490	-3.704	1.00	0.00	N
ATOM	917	CA	ARG A	67160.734	5.073	-4.613	1.00	0.00	C
ATOM	918	C	ARG A	67161.838	5.788	-3.841	1.00	0.00	C
ATOM	919	O	ARG A	67162.346	6.820	-4.278	1.00	0.00	O
ATOM	920	CB	ARG A	67160.052	6.049	-5.573	1.00	0.00	C
ATOM	921	CG	ARG A	67158.792	5.490	-6.216	1.00	0.00	C
ATOM	922	CD	ARG A	67158.603	6.025	-7.627	1.00	0.00	C
ATOM	923	NE	ARG A	67159.699	5.635	-8.512	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.811	4.430	-9.066	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.898	3.496	-8.831	1.00	0.00	N
ATOM	926	NH2	ARG A	67160.839	4.160	-9.859	1.00	0.00	N
ATOM	927	H	ARG A	67159.609	3.521	-3.715	1.00	0.00	H
ATOM	928	HA	ARG A	67161.175	4.269	-5.185	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.786	6.944	-5.030	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.746	6.309	-6.359	1.00	0.00	H
ATOM	931	1HG	ARG A	67158.868	4.414	-6.257	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.939	5.771	-5.616	1.00	0.00	H

ATOM	933	1HD	ARG A	67157.677	5.636	-8.024	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.551	7.103	-7.585	1.00	0.00	H
ATOM	935	HE	ARG A	67160.387	6.307	-8.702	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.121	3.694	-8.234	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.989	2.592	-9.251	1.00	0.00	H
ATOM	938	1HH2	ARG A	67161.530	4.860	-10.040	1.00	0.00	H
ATOM	939	2HH2	ARG A	67160.924	3.254	-10.275	1.00	0.00	H
ATOM	940	N	GLY A	68162.203	5.234	-2.690	1.00	0.00	N
ATOM	941	CA	GLY A	68163.242	5.832	-1.875	1.00	0.00	C
ATOM	942	C	GLY A	68162.747	7.030	-1.090	1.00	0.00	C
ATOM	943	O	GLY A	68163.514	7.944	-0.788	1.00	0.00	O
ATOM	944	H	GLY A	68161.762	4.410	-2.391	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.614	5.091	-1.183	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.052	6.146	-2.518	1.00	0.00	H
ATOM	947	N	THR A	69161.460	7.025	-0.757	1.00	0.00	N
ATOM	948	CA	THR A	69160.862	8.120	-0.002	1.00	0.00	C
ATOM	949	C	THR A	69160.025	7.587	1.157	1.00	0.00	C
ATOM	950	O	THR A	69158.921	7.081	0.958	1.00	0.00	O
ATOM	951	CB	THR A	69159.993	8.984	-0.918	1.00	0.00	C
ATOM	952	OG1	THR A	69160.667	9.263	-2.131	1.00	0.00	O
ATOM	953	CG2	THR A	69159.599	10.306	-0.297	1.00	0.00	C
ATOM	954	H	THR A	69160.899	6.268	-1.026	1.00	0.00	H
ATOM	955	HA	THR A	69161.662	8.725	0.396	1.00	0.00	H
ATOM	956	HB	THR A	69159.086	8.445	-1.150	1.00	0.00	H
ATOM	957	HG1	THR A	69160.114	9.005	-2.872	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.484	10.901	-0.126	1.00	0.00	H
ATOM	959	2HG2	THR A	69159.099	10.128	0.644	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.934	10.834	-0.963	1.00	0.00	H
ATOM	961	N	ARG A	70160.560	7.705	2.368	1.00	0.00	N
ATOM	962	CA	ARG A	70159.862	7.237	3.560	1.00	0.00	C
ATOM	963	C	ARG A	70158.583	8.034	3.793	1.00	0.00	C

ATOM	964	O	ARG A	70158.604	9.265	3.826	1.00	0.00	O
ATOM	965	CB	ARG A	70160.772	7.343	4.785	1.00	0.00	C
ATOM	966	CG	ARG A	70160.162	6.760	6.050	1.00	0.00	C
ATOM	967	CD	ARG A	70160.641	7.498	7.289	1.00	0.00	C
ATOM	968	NE	ARG A	70161.937	7.009	7.750	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.648	7.587	8.716	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.191	8.674	9.325	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.818	7.076	9.075	1.00	0.00	N
ATOM	972	H	ARG A	70161.443	8.118	2.464	1.00	0.00	H
ATOM	973	HA	ARG A	70159.602	6.200	3.405	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.693	6.817	4.582	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.995	8.384	4.964	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.087	6.841	5.989	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.443	5.721	6.128	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.726	8.549	7.057	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.914	7.362	8.077	1.00	0.00	H
ATOM	980	HE	ARG A	70162.299	6.206	7.318	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.309	9.064	9.060	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.730	9.104	10.050	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.167	6.258	8.620	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.353	7.511	9.800	1.00	0.00	H
ATOM	985	N	TYR A	71157.470	7.325	3.952	1.00	0.00	N
ATOM	986	CA	TYR A	71156.180	7.967	4.180	1.00	0.00	C
ATOM	987	C	TYR A	71155.674	7.682	5.590	1.00	0.00	C
ATOM	988	O	TYR A	71155.163	8.573	6.270	1.00	0.00	O
ATOM	989	CB	TYR A	71155.157	7.484	3.151	1.00	0.00	C
ATOM	990	CG	TYR A	71155.254	8.194	1.820	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.379	9.576	1.756	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.222	7.483	0.628	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.468	10.230	0.542	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.311	8.130	-0.592	1.00	0.00	C

ATOM	995	CZ	TYR A	71155.433	9.502	-0.628	1.00	0.00	C
ATOM	996	OH	TYR A	71155.522	10.149	-1.840	1.00	0.00	O
ATOM	997	H	TYR A	71157.517	6.347	3.915	1.00	0.00	H
ATOM	998	HA	TYR A	71156.316	9.032	4.068	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.305	6.429	2.975	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.162	7.643	3.541	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.406	10.144	2.675	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.126	6.408	0.660	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.564	11.305	0.513	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.284	7.558	-1.507	1.00	0.00	H
ATOM	1005	HH	TYR A	71154.666	10.137	-2.273	1.00	0.00	H
ATOM	1006	N	PHE A	72155.818	6.433	6.025	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.374	6.031	7.354	1.00	0.00	C
ATOM	1008	C	PHE A	72156.371	5.067	7.991	1.00	0.00	C
ATOM	1009	O	PHE A	72157.400	4.741	7.399	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.994	5.378	7.277	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.913	4.259	6.279	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.609	4.517	4.953	1.00	0.00	C
ATOM	1013	CD2	PHE A	72154.142	2.948	6.668	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.534	3.488	4.031	1.00	0.00	C
ATOM	1015	CE2	PHE A	72154.069	1.916	5.752	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.765	2.186	4.432	1.00	0.00	C
ATOM	1017	H	PHE A	72156.233	5.768	5.436	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.310	6.918	7.965	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.740	4.976	8.247	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.265	6.125	7.000	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.430	5.534	4.638	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.380	2.735	7.700	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.296	3.703	3.000	1.00	0.00	H
ATOM	1024	HE2	PHE A	72154.249	0.899	6.067	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.707	1.383	3.714	1.00	0.00	H

ATOM 1026 N THRA 73156.058 4.615 9.200 1.00 0.00 N  
 ATOM 1027 CA THRA 73156.926 3.688 9.918 1.00 0.00 C  
 ATOM 1028 C THRA 73156.249 2.332 10.092 1.00 0.00 C  
 ATOM 1029 O THRA 73155.294 2.197 10.857 1.00 0.00 O  
 ATOM 1030 CB THRA 73157.300 4.262 11.286 1.00 0.00 C  
 ATOM 1031 OG1 THRA 73157.264 5.679 11.261 1.00 0.00 O  
 ATOM 1032 CG2 THRA 73158.677 3.846 11.754 1.00 0.00 C  
 ATOM 1033 H THRA 73155.224 4.911 9.621 1.00 0.00 H  
 ATOM 1034 HA THRA 73157.825 3.556 9.336 1.00 0.00 H  
 ATOM 1035 HB THRA 73156.583 3.918 12.018 1.00 0.00 H  
 ATOM 1036 HG1 THRA 73157.170 6.012 12.157 1.00 0.00 H  
 ATOM 1037 1HG2 THRA 73158.583 3.105 12.534 1.00 0.00 H  
 ATOM 1038 2HG2 THRA 73159.203 4.708 12.137 1.00 0.00 H  
 ATOM 1039 3HG2 THRA 73159.228 3.428 10.924 1.00 0.00 H  
 ATOM 1040 N CYSA 74156.751 1.330 9.377 1.00 0.00 N  
 ATOM 1041 CA CYSA 74156.194 -0.016 9.452 1.00 0.00 C  
 ATOM 1042 C CYSA 74157.303 -1.064 9.444 1.00 0.00 C  
 ATOM 1043 O CYSA 74158.474 -0.742 9.240 1.00 0.00 O  
 ATOM 1044 CB CYSA 74155.237 -0.260 8.284 1.00 0.00 C  
 ATOM 1045 SG CYSA 74153.533 0.249 8.608 1.00 0.00 S  
 ATOM 1046 H CYSA 74157.513 1.501 8.785 1.00 0.00 H  
 ATOM 1047 HA CYSA 74155.646 -0.097 10.379 1.00 0.00 H  
 ATOM 1048 1HB CYSA 74155.585 0.289 7.423 1.00 0.00 H  
 ATOM 1049 2HB CYSA 74155.227 -1.316 8.052 1.00 0.00 H  
 ATOM 1050 HG CYSA 74153.000 -0.543 8.708 1.00 0.00 H  
 ATOM 1051 N ALAA 75156.926 -2.318 9.665 1.00 0.00 N  
 ATOM 1052 CA ALAA 75157.887 -3.414 9.683 1.00 0.00 C  
 ATOM 1053 C ALAA 75158.563 -3.573 8.325 1.00 0.00 C  
 ATOM 1054 O ALAA 75158.307 -2.802 7.400 1.00 0.00 O  
 ATOM 1055 CB ALAA 75157.202 -4.710 10.088 1.00 0.00 C  
 ATOM 1056 H ALAA 75155.977 -2.512 9.820 1.00 0.00 H



ATOM 1057 HA ALA A 75158.639 -3.185 10.424 1.00 0.00 H  
 ATOM 1058 1HB ALA A 75156.374 -4.490 10.747 1.00 0.00 H  
 ATOM 1059 2HB ALA A 75157.909 -5.347 10.599 1.00 0.00 H  
 ATOM 1060 3HB ALA A 75156.835 -5.214 9.206 1.00 0.00 H  
 ATOM 1061 N LEU A 76159.428 -4.576 8.214 1.00 0.00 N  
 ATOM 1062 CA LEU A 76160.140 -4.836 6.970 1.00 0.00 C  
 ATOM 1063 C LEU A 76159.343 -5.774 6.071 1.00 0.00 C  
 ATOM 1064 O LEU A 76158.761 -6.754 6.538 1.00 0.00 O  
 ATOM 1065 CB LEU A 76161.516 -5.439 7.262 1.00 0.00 C  
 ATOM 1066 CG LEU A 76162.491 -4.508 7.985 1.00 0.00 C  
 ATOM 1067 CD1 LEU A 76163.544 -5.313 8.731 1.00 0.00 C  
 ATOM 1068 CD2 LEU A 76163.146 -3.554 6.999 1.00 0.00 C  
 ATOM 1069 H LEU A 76159.589 -5.155 8.988 1.00 0.00 H  
 ATOM 1070 HA LEU A 76160.272 -3.893 6.460 1.00 0.00 H  
 ATOM 1071 1HB LEU A 76161.377 -6.322 7.869 1.00 0.00 H  
 ATOM 1072 2HB LEU A 76161.963 -5.733 6.325 1.00 0.00 H  
 ATOM 1073 HG LEU A 76161.946 -3.920 8.711 1.00 0.00 H  
 ATOM 1074 1HD1 LEU A 76163.714 -6.248 8.216 1.00 0.00 H  
 ATOM 1075 2HD1 LEU A 76163.200 -5.514 9.735 1.00 0.00 H  
 ATOM 1076 3HD1 LEU A 76164.465 -4.752 8.771 1.00 0.00 H  
 ATOM 1077 1HD2 LEU A 76164.105 -3.950 6.697 1.00 0.00 H  
 ATOM 1078 2HD2 LEU A 76163.287 -2.591 7.468 1.00 0.00 H  
 ATOM 1079 3HD2 LEU A 76162.513 -3.442 6.131 1.00 0.00 H  
 ATOM 1080 N LYS A 77159.317 -5.468 4.778 1.00 0.00 N  
 ATOM 1081 CA LYS A 77158.590 -6.284 3.812 1.00 0.00 C  
 ATOM 1082 C LYS A 77157.095 -6.288 4.118 1.00 0.00 C  
 ATOM 1083 O LYS A 77156.429 -7.316 4.000 1.00 0.00 O  
 ATOM 1084 CB LYS A 77159.128 -7.715 3.813 1.00 0.00 C  
 ATOM 1085 CG LYS A 77160.634 -7.800 3.630 1.00 0.00 C  
 ATOM 1086 CD LYS A 77161.057 -7.310 2.255 1.00 0.00 C  
 ATOM 1087 CE LYS A 77162.356 -6.523 2.319 1.00 0.00 C

ATOM 1088 NZ LYS A 77163.544 -7.416 2.398 1.00 0.00 N  
 ATOM 1089 H LYS A 77159.800 -4.674 4.465 1.00 0.00 H  
 ATOM 1090 HA LYS A 77158.743 -5.853 2.833 1.00 0.00 H  
 ATOM 1091 1HB LYS A 77158.874 -8.183 4.753 1.00 0.00 H  
 ATOM 1092 2HB LYS A 77158.658 -8.266 3.010 1.00 0.00 H  
 ATOM 1093 1HG LYS A 77161.113 -7.190 4.381 1.00 0.00 H  
 ATOM 1094 2HG LYS A 77160.943 -8.829 3.747 1.00 0.00 H  
 ATOM 1095 1HD LYS A 77161.197 -8.162 1.607 1.00 0.00 H  
 ATOM 1096 2HD LYS A 77160.280 -6.675 1.855 1.00 0.00 H  
 ATOM 1097 1HE LYS A 77162.435 -5.912 1.433 1.00 0.00 H  
 ATOM 1098 2HE LYS A 77162.333 -5.888 3.192 1.00 0.00 H  
 ATOM 1099 1HZ LYS A 77163.466 -8.042 3.225 1.00 0.00 H  
 ATOM 1100 2HZ LYS A 77164.412 -6.850 2.488 1.00 0.00 H  
 ATOM 1101 3HZ LYS A 77163.610 -7.999 1.540 1.00 0.00 H  
 ATOM 1102 N LYS A 78156.575 -5.129 4.511 1.00 0.00 N  
 ATOM 1103 CA LYS A 78155.158 -4.999 4.835 1.00 0.00 C  
 ATOM 1104 C LYS A 78154.626 -3.635 4.409 1.00 0.00 C  
 ATOM 1105 O LYS A 78153.813 -3.029 5.105 1.00 0.00 O  
 ATOM 1106 CB LYS A 78154.935 -5.202 6.335 1.00 0.00 C  
 ATOM 1107 CG LYS A 78155.471 -6.525 6.856 1.00 0.00 C  
 ATOM 1108 CD LYS A 78155.046 -6.771 8.295 1.00 0.00 C  
 ATOM 1109 CE LYS A 78153.892 -7.759 8.376 1.00 0.00 C  
 ATOM 1110 NZ LYS A 78152.858 -7.327 9.357 1.00 0.00 N  
 ATOM 1111 H LYS A 78157.156 -4.344 4.585 1.00 0.00 H  
 ATOM 1112 HA LYS A 78154.624 -5.766 4.293 1.00 0.00 H  
 ATOM 1113 1HB LYS A 78155.426 -4.403 6.871 1.00 0.00 H  
 ATOM 1114 2HB LYS A 78153.875 -5.162 6.538 1.00 0.00 H  
 ATOM 1115 1HG LYS A 78155.092 -7.324 6.238 1.00 0.00 H  
 ATOM 1116 2HG LYS A 78156.550 -6.510 6.806 1.00 0.00 H  
 ATOM 1117 1HD LYS A 78155.886 -7.169 8.845 1.00 0.00 H  
 ATOM 1118 2HD LYS A 78154.737 -5.833 8.734 1.00 0.00 H

ATOM	1119	1HE	LYS A	78153.438	-7.843	7.401	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.281	-8.721	8.676	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.177	-8.095	9.519	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.348	-6.496	8.995	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.306	-7.077	10.262	1.00	0.00	H
ATOM	1124	N	ALAA	79155.092	-3.158	3.259	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.663	-1.865	2.739	1.00	0.00	C
ATOM	1126	C	ALAA	79154.486	-1.913	1.224	1.00	0.00	C
ATOM	1127	O	ALAA	79155.458	-1.832	0.474	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.663	-0.785	3.120	1.00	0.00	C
ATOM	1129	H	ALAA	79155.738	-3.687	2.748	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.714	-1.621	3.194	1.00	0.00	H
ATOM	1131	1HB	ALAA	79156.642	-1.226	3.237	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.362	-0.326	4.050	1.00	0.00	H
ATOM	1133	3HB	ALAA	79155.697	-0.034	2.344	1.00	0.00	H
ATOM	1134	N	LEU A	80153.240	-2.048	0.784	1.00	0.00	N
ATOM	1135	CA	LEU A	80152.935	-2.108	-0.642	1.00	0.00	C
ATOM	1136	C	LEU A	80152.158	-0.872	-1.085	1.00	0.00	C
ATOM	1137	O	LEU A	80150.982	-0.716	-0.757	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.132	-3.370	-0.960	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.709	-3.517	-2.423	1.00	0.00	C
ATOM	1140	CD1	LEU A	80152.928	-3.673	-3.318	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.769	-4.701	-2.589	1.00	0.00	C
ATOM	1142	H	LEU A	80152.506	-2.108	1.431	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.871	-2.142	-1.180	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.730	-4.230	-0.692	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.241	-3.369	-0.350	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.182	-2.625	-2.729	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80152.661	-3.431	-4.336	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.282	-4.692	-3.270	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.708	-3.005	-2.982	1.00	0.00	H

ATOM 1150 1HD2 LEU A 80149.747 -4.365 -2.496 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80150.977 -5.436 -1.824 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80150.916 -5.145 -3.562 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.824 0.002 -1.833 1.00 0.00 N  
 ATOM 1154 CA PHE A 81152.195 1.224 -2.321 1.00 0.00 C  
 ATOM 1155 C PHE A 81151.421 0.959 -3.609 1.00 0.00 C  
 ATOM 1156 O PHE A 81151.893 0.242 -4.492 1.00 0.00 O  
 ATOM 1157 CB PHE A 81153.250 2.305 -2.561 1.00 0.00 C  
 ATOM 1158 CG PHE A 81153.927 2.771 -1.304 1.00 0.00 C  
 ATOM 1159 CD1 PHE A 81155.141 2.230 -0.913 1.00 0.00 C  
 ATOM 1160 CD2 PHE A 81153.349 3.752 -0.514 1.00 0.00 C  
 ATOM 1161 CE1 PHE A 81155.766 2.657 0.243 1.00 0.00 C  
 ATOM 1162 CE2 PHE A 81153.970 4.184 0.643 1.00 0.00 C  
 ATOM 1163 CZ PHE A 81155.180 3.636 1.022 1.00 0.00 C  
 ATOM 1164 H PHE A 81153.759 -0.179 -2.062 1.00 0.00 H  
 ATOM 1165 HA PHE A 81151.505 1.567 -1.565 1.00 0.00 H  
 ATOM 1166 1HB PHE A 81154.011 1.916 -3.222 1.00 0.00 H  
 ATOM 1167 2HB PHE A 81152.780 3.160 -3.024 1.00 0.00 H  
 ATOM 1168 HD1 PHE A 81155.600 1.464 -1.522 1.00 0.00 H  
 ATOM 1169 HD2 PHE A 81152.404 4.182 -0.810 1.00 0.00 H  
 ATOM 1170 HE1 PHE A 81156.712 2.227 0.537 1.00 0.00 H  
 ATOM 1171 HE2 PHE A 81153.509 4.949 1.250 1.00 0.00 H  
 ATOM 1172 HZ PHE A 81155.667 3.972 1.926 1.00 0.00 H  
 ATOM 1173 N VAL A 82150.230 1.540 -3.708 1.00 0.00 N  
 ATOM 1174 CA VAL A 82149.392 1.366 -4.888 1.00 0.00 C  
 ATOM 1175 C VAL A 82148.405 2.518 -5.036 1.00 0.00 C  
 ATOM 1176 O VAL A 82148.216 3.311 -4.112 1.00 0.00 O  
 ATOM 1177 CB VAL A 82148.608 0.041 -4.830 1.00 0.00 C  
 ATOM 1178 CG1 VAL A 82149.551 -1.144 -4.972 1.00 0.00 C  
 ATOM 1179 CG2 VAL A 82147.812 -0.053 -3.537 1.00 0.00 C  
 ATOM 1180 H VAL A 82149.908 2.099 -2.971 1.00 0.00 H

ATOM 1181 HA VAL A 82150.036 1.342 -5.754 1.00 0.00 H  
 ATOM 1182 HB VAL A 82147.913 0.020 -5.657 1.00 0.00 H  
 ATOM 1183 IHG1 VAL A 82150.173 -1.007 -5.845 1.00 0.00 H  
 ATOM 1184 2HG1 VAL A 82148.974 -2.051 -5.080 1.00 0.00 H  
 ATOM 1185 3HG1 VAL A 82150.174 -1.217 -4.093 1.00 0.00 H  
 ATOM 1186 IHG2 VAL A 82148.320 0.501 -2.761 1.00 0.00 H  
 ATOM 1187 2HG2 VAL A 82147.726 -1.088 -3.242 1.00 0.00 H  
 ATOM 1188 3HG2 VAL A 82146.827 0.361 -3.690 1.00 0.00 H  
 ATOM 1189 N LYS A 83147.779 2.607 -6.205 1.00 0.00 N  
 ATOM 1190 CA LYS A 83146.812 3.663 -6.476 1.00 0.00 C  
 ATOM 1191 C LYS A 83145.588 3.528 -5.576 1.00 0.00 C  
 ATOM 1192 O LYS A 83144.925 2.491 -5.563 1.00 0.00 O  
 ATOM 1193 CB LYS A 83146.386 3.628 -7.943 1.00 0.00 C  
 ATOM 1194 CG LYS A 83147.535 3.842 -8.914 1.00 0.00 C  
 ATOM 1195 CD LYS A 83147.328 3.060 -10.201 1.00 0.00 C  
 ATOM 1196 CE LYS A 83147.711 3.883 -11.421 1.00 0.00 C  
 ATOM 1197 NZ LYS A 83148.378 3.054 -12.463 1.00 0.00 N  
 ATOM 1198 H LYS A 83147.972 1.946 -6.901 1.00 0.00 H  
 ATOM 1199 HA LYS A 83147.288 4.611 -6.273 1.00 0.00 H  
 ATOM 1200 IHB LYS A 83145.938 2.667 -8.153 1.00 0.00 H  
 ATOM 1201 2HB LYS A 83145.651 4.402 -8.112 1.00 0.00 H  
 ATOM 1202 IHG LYS A 83147.605 4.893 -9.149 1.00 0.00 H  
 ATOM 1203 2HG LYS A 83148.453 3.513 -8.449 1.00 0.00 H  
 ATOM 1204 IHD LYS A 83147.937 2.171 -10.174 1.00 0.00 H  
 ATOM 1205 2HD LYS A 83146.286 2.784 -10.277 1.00 0.00 H  
 ATOM 1206 IHE LYS A 83146.818 4.321 -11.840 1.00 0.00 H  
 ATOM 1207 2HE LYS A 83148.386 4.669 -11.112 1.00 0.00 H  
 ATOM 1208 IHZ LYS A 83149.259 2.646 -12.086 1.00 0.00 H  
 ATOM 1209 2HZ LYS A 83148.608 3.638 -13.292 1.00 0.00 H  
 ATOM 1210 3HZ LYS A 83147.750 2.280 -12.760 1.00 0.00 H  
 ATOM 1211 N LEU A 84145.297 4.584 -4.824 1.00 0.00 N

ATOM 1212 CA LEU A 84144.155 4.589 -3.920 1.00 0.00 C  
 ATOM 1213 C LEU A 84142.854 4.351 -4.682 1.00 0.00 C  
 ATOM 1214 O LEU A 84141.904 3.781 -4.146 1.00 0.00 O  
 ATOM 1215 CB LEU A 84144.084 5.921 -3.168 1.00 0.00 C  
 ATOM 1216 CG LEU A 84142.860 6.097 -2.270 1.00 0.00 C  
 ATOM 1217 CD1 LEU A 84143.005 5.271 -1.001 1.00 0.00 C  
 ATOM 1218 CD2 LEU A 84142.654 7.566 -1.931 1.00 0.00 C  
 ATOM 1219 H LEU A 84145.865 5.381 -4.880 1.00 0.00 H  
 ATOM 1220 HA LEU A 84144.292 3.790 -3.207 1.00 0.00 H  
 ATOM 1221 1HB LEU A 84144.970 6.011 -2.557 1.00 0.00 H  
 ATOM 1222 2HB LEU A 84144.087 6.720 -3.895 1.00 0.00 H  
 ATOM 1223 HG LEU A 84141.982 5.748 -2.796 1.00 0.00 H  
 ATOM 1224 1HD1 LEU A 84143.855 5.627 -0.437 1.00 0.00 H  
 ATOM 1225 2HD1 LEU A 84143.154 4.235 -1.261 1.00 0.00 H  
 ATOM 1226 3HD1 LEU A 84142.111 5.368 -0.403 1.00 0.00 H  
 ATOM 1227 1HD2 LEU A 84142.328 8.096 -2.815 1.00 0.00 H  
 ATOM 1228 2HD2 LEU A 84143.585 7.988 -1.582 1.00 0.00 H  
 ATOM 1229 3HD2 LEU A 84141.906 7.657 -1.159 1.00 0.00 H  
 ATOM 1230 N LYS A 85142.820 4.791 -5.936 1.00 0.00 N  
 ATOM 1231 CA LYS A 85141.638 4.625 -6.773 1.00 0.00 C  
 ATOM 1232 C LYS A 85141.346 3.149 -7.023 1.00 0.00 C  
 ATOM 1233 O LYS A 85140.199 2.762 -7.245 1.00 0.00 O  
 ATOM 1234 CB LYS A 85141.824 5.353 -8.106 1.00 0.00 C  
 ATOM 1235 CG LYS A 85142.964 4.800 -8.947 1.00 0.00 C  
 ATOM 1236 CD LYS A 85143.695 5.905 -9.691 1.00 0.00 C  
 ATOM 1237 CE LYS A 85144.591 5.343 -10.783 1.00 0.00 C  
 ATOM 1238 NZ LYS A 85143.805 4.844 -11.945 1.00 0.00 N  
 ATOM 1239 H LYS A 85143.610 5.237 -6.307 1.00 0.00 H  
 ATOM 1240 HA LYS A 85140.799 5.061 -6.250 1.00 0.00 H  
 ATOM 1241 1HB LYS A 85140.911 5.273 -8.677 1.00 0.00 H  
 ATOM 1242 2HB LYS A 85142.025 6.396 -7.908 1.00 0.00 H

ATOM	1243	1HG	LYS A	85143.662	4.292	-8.299	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.560	4.099	-9.664	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.967	6.564	-10.142	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.301	6.459	-8.990	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.258	6.122	-11.119	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.168	4.528	-10.372	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.592	3.833	-11.823	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.347	4.968	-12.823	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85142.911	5.369	-12.024	1.00	0.00	H
ATOM	1252	N	SER A	86142.391	2.327	-6.987	1.00	0.00	N
ATOM	1253	CA	SER A	86142.245	0.893	-7.211	1.00	0.00	C
ATOM	1254	C	SER A	86142.174	0.138	-5.887	1.00	0.00	C
ATOM	1255	O	SER A	86142.631	-1.000	-5.785	1.00	0.00	O
ATOM	1256	CB	SER A	86143.408	0.365	-8.051	1.00	0.00	C
ATOM	1257	OG	SER A	86143.446	0.993	-9.321	1.00	0.00	O
ATOM	1258	H	SER A	86143.283	2.693	-6.806	1.00	0.00	H
ATOM	1259	HA	SER A	86141.322	0.736	-7.749	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.338	0.562	-7.539	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.293	-0.700	-8.192	1.00	0.00	H
ATOM	1262	HG	SER A	86144.345	1.272	-9.514	1.00	0.00	H
ATOM	1263	N	CYS A	87141.598	0.779	-4.874	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.467	0.167	-3.557	1.00	0.00	C
ATOM	1265	C	CYS A	87139.999	-0.033	-3.194	1.00	0.00	C
ATOM	1266	O	CYS A	87139.129	0.702	-3.662	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.154	1.032	-2.499	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.960	0.965	-2.548	1.00	0.00	S
ATOM	1269	H	CYS A	87141.252	1.685	-5.016	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.952	-0.798	-3.590	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.861	2.062	-2.641	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.839	0.705	-1.518	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.296	1.482	-1.813	1.00	0.00	H

ATOM 1274 N ARG A 88139.731 -1.030 -2.358 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.367 -1.324 -1.933 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.296 -1.513 -0.419 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.226 -2.038 0.193 1.00 0.00 O  
 ATOM 1278 CB ARG A 88137.849 -2.577 -2.639 1.00 0.00 C  
 ATOM 1279 CG ARG A 88137.403 -2.328 -4.072 1.00 0.00 C  
 ATOM 1280 CD ARG A 88136.086 -3.025 -4.377 1.00 0.00 C  
 ATOM 1281 NE ARG A 88135.450 -2.490 -5.578 1.00 0.00 N  
 ATOM 1282 CZ ARG A 88134.428 -3.076 -6.198 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88133.924 -4.214 -5.735 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88133.907 -2.523 -7.285 1.00 0.00 N  
 ATOM 1285 H ARG A 88140.466 -1.580 -2.018 1.00 0.00 H  
 ATOM 1286 HA ARG A 88137.747 -0.484 -2.209 1.00 0.00 H  
 ATOM 1287 1HB ARG A 88138.635 -3.319 -2.655 1.00 0.00 H  
 ATOM 1288 2HB ARG A 88137.008 -2.969 -2.085 1.00 0.00 H  
 ATOM 1289 1HG ARG A 88137.278 -1.266 -4.219 1.00 0.00 H  
 ATOM 1290 2HG ARG A 88138.161 -2.700 -4.744 1.00 0.00 H  
 ATOM 1291 1HD ARG A 88136.276 -4.079 -4.521 1.00 0.00 H  
 ATOM 1292 2HD ARG A 88135.420 -2.892 -3.537 1.00 0.00 H  
 ATOM 1293 HE ARG A 88135.801 -1.651 -5.942 1.00 0.00 H  
 ATOM 1294 1HH1 ARG A 88134.312 -4.637 -4.916 1.00 0.00 H  
 ATOM 1295 2HH1 ARG A 88133.157 -4.649 -6.207 1.00 0.00 H  
 ATOM 1296 1HH2 ARG A 88134.282 -1.665 -7.639 1.00 0.00 H  
 ATOM 1297 2HH2 ARG A 88133.140 -2.962 -7.752 1.00 0.00 H  
 ATOM 1298 N PRO A 89137.185 -1.087 0.210 1.00 0.00 N  
 ATOM 1299 CA PRO A 89137.002 -1.213 1.660 1.00 0.00 C  
 ATOM 1300 C PRO A 89137.199 -2.645 2.145 1.00 0.00 C  
 ATOM 1301 O PRO A 89136.595 -3.579 1.617 1.00 0.00 O  
 ATOM 1302 CB PRO A 89135.553 -0.771 1.878 1.00 0.00 C  
 ATOM 1303 CG PRO A 89135.241 0.104 0.715 1.00 0.00 C  
 ATOM 1304 CD PRO A 89136.025 -0.449 -0.441 1.00 0.00 C



ATOM	1305	HA	PRO A	89137.666	-0.557	2.201	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.909	-1.640	1.904	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.475	-0.232	2.810	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.183	0.069	0.502	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.548	1.118	0.926	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.439	-1.176	-0.982	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.342	0.348	-1.098	1.00	0.00	H
ATOM	1312	N	ASP A	90138.048	-2.811	3.153	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.324	-4.130	3.710	1.00	0.00	C
ATOM	1314	C	ASP A	90137.589	-4.329	5.031	1.00	0.00	C
ATOM	1315	O	ASP A	90137.948	-3.734	6.048	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.829	-4.316	3.918	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.229	-5.777	3.972	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.989	-6.496	2.979	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.783	-6.203	5.008	1.00	0.00	O
ATOM	1320	H	ASP A	90138.500	-2.029	3.532	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.974	-4.868	3.004	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.358	-3.847	3.102	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.118	-3.847	4.846	1.00	0.00	H
ATOM	1324	N	SER A	91136.559	-5.167	5.010	1.00	0.00	N
ATOM	1325	CA	SER A	91135.772	-5.443	6.208	1.00	0.00	C
ATOM	1326	C	SER A	91136.212	-6.752	6.856	1.00	0.00	C
ATOM	1327	O	SER A	91135.407	-7.454	7.468	1.00	0.00	O
ATOM	1328	CB	SER A	91134.284	-5.508	5.861	1.00	0.00	C
ATOM	1329	OG	SER A	91133.486	-5.094	6.957	1.00	0.00	O
ATOM	1330	H	SER A	91136.321	-5.611	4.170	1.00	0.00	H
ATOM	1331	HA	SER A	91135.936	-4.637	6.905	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.083	-4.859	5.021	1.00	0.00	H
ATOM	1333	2HB	SER A	91134.020	-6.523	5.603	1.00	0.00	H
ATOM	1334	HG	SER A	91133.511	-4.137	7.028	1.00	0.00	H
ATOM	1335	N	ARG A	92137.494	-7.074	6.718	1.00	0.00	N

ATOM	1336	CA	ARG A	92138.040	-8.299	7.291	1.00	0.00	C
ATOM	1337	C	ARG A	92137.997	-8.255	8.815	1.00	0.00	C
ATOM	1338	O	ARG A	92137.778	-9.274	9.469	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.479	-8.511	6.816	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.579	-9.239	5.486	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.435	-10.743	5.661	1.00	0.00	C
ATOM	1342	NE	ARG A	92138.046	-11.178	5.537	1.00	0.00	N
ATOM	1343	CZ	ARG A	92137.404	-11.285	4.375	1.00	0.00	C
ATOM	1344	NH1	ARG A	92138.022	-10.991	3.239	1.00	0.00	N
ATOM	1345	NH2	ARG A	92136.142	-11.689	4.352	1.00	0.00	N
ATOM	1346	H	ARG A	92138.087	-6.473	6.220	1.00	0.00	H
ATOM	1347	HA	ARG A	92137.433	-9.123	6.950	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.957	-7.548	6.711	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.010	-9.088	7.559	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.794	-8.887	4.833	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.541	-9.027	5.042	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.026	-11.239	4.907	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.802	-11.014	6.641	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.567	-11.402	6.361	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.974	-10.686	3.249	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92137.534	-11.073	2.369	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92135.672	-11.912	5.206	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92135.659	-11.769	3.479	1.00	0.00	H
ATOM	1359	N	PHE A	93138.207	-7.068	9.375	1.00	0.00	N
ATOM	1360	CA	PHE A	93138.193	-6.892	10.823	1.00	0.00	C
ATOM	1361	C	PHE A	93137.029	-6.005	11.254	1.00	0.00	C
ATOM	1362	O	PHE A	93137.101	-5.323	12.276	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.514	-6.284	11.297	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.693	-7.196	11.114	1.00	0.00	C
ATOM	1365	CD1	PHE A	93141.421	-7.636	12.209	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.076	-7.612	9.850	1.00	0.00	C

ATOM 1367 CE1 PHE A 93142.507 -8.475 12.045 1.00 0.00 C  
 ATOM 1368 CE2 PHE A 93142.160 -8.451 9.679 1.00 0.00 C  
 ATOM 1369 CZ PHE A 93142.877 -8.883 10.778 1.00 0.00 C  
 ATOM 1370 H PHE A 93138.377 -6.292 8.801 1.00 0.00 H  
 ATOM 1371 HA PHE A 93138.073 -7.866 11.273 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93139.706 -5.379 10.741 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93139.435 -6.046 12.348 1.00 0.00 H  
 ATOM 1374 HD1 PHE A 93141.132 -7.318 13.200 1.00 0.00 H  
 ATOM 1375 HD2 PHE A 93140.516 -7.276 8.990 1.00 0.00 H  
 ATOM 1376 HE1 PHE A 93143.066 -8.811 12.906 1.00 0.00 H  
 ATOM 1377 HE2 PHE A 93142.449 -8.769 8.688 1.00 0.00 H  
 ATOM 1378 HZ PHE A 93143.726 -9.538 10.648 1.00 0.00 H  
 ATOM 1379 N ALA A 94135.955 -6.018 10.469 1.00 0.00 N  
 ATOM 1380 CA ALA A 94134.778 -5.215 10.774 1.00 0.00 C  
 ATOM 1381 C ALA A 94133.672 -6.072 11.385 1.00 0.00 C  
 ATOM 1382 O ALA A 94133.228 -7.050 10.784 1.00 0.00 O  
 ATOM 1383 CB ALA A 94134.277 -4.516 9.517 1.00 0.00 C  
 ATOM 1384 H ALA A 94135.955 -6.583 9.668 1.00 0.00 H  
 ATOM 1385 HA ALA A 94135.066 -4.457 11.487 1.00 0.00 H  
 ATOM 1386 1HB ALA A 94134.221 -3.453 9.696 1.00 0.00 H  
 ATOM 1387 2HB ALA A 94133.296 -4.890 9.260 1.00 0.00 H  
 ATOM 1388 3HB ALA A 94134.960 -4.710 8.702 1.00 0.00 H  
 ATOM 1389 N SER A 95133.233 -5.697 12.581 1.00 0.00 N  
 ATOM 1390 CA SER A 95132.179 -6.430 13.272 1.00 0.00 C  
 ATOM 1391 C SER A 95130.821 -5.774 13.045 1.00 0.00 C  
 ATOM 1392 O SER A 95130.572 -4.661 13.509 1.00 0.00 O  
 ATOM 1393 CB SER A 95132.478 -6.505 14.770 1.00 0.00 C  
 ATOM 1394 OG SER A 95133.847 -6.787 15.003 1.00 0.00 O  
 ATOM 1395 H SER A 95133.626 -4.908 13.010 1.00 0.00 H  
 ATOM 1396 HA SER A 95132.153 -7.431 12.869 1.00 0.00 H  
 ATOM 1397 1HB SER A 95132.235 -5.559 15.232 1.00 0.00 H

ATOM 1398 2HB SER A 95131.881 -7.287 15.216 1.00 0.00 H  
 ATOM 1399 HG SER A 95134.085 -7.606 14.563 1.00 0.00 H  
 ATOM 1400 N LEU A 96129.945 -6.471 12.329 1.00 0.00 N  
 ATOM 1401 CA LEU A 96128.611 -5.955 12.040 1.00 0.00 C  
 ATOM 1402 C LEU A 96127.536 -6.887 12.586 1.00 0.00 C  
 ATOM 1403 O LEU A 96126.547 -6.439 13.167 1.00 0.00 O  
 ATOM 1404 CB LEU A 96128.427 -5.773 10.532 1.00 0.00 C  
 ATOM 1405 CG LEU A 96128.880 -4.419 9.983 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96129.430 -4.572 8.573 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96127.729 -3.425 10.003 1.00 0.00 C  
 ATOM 1408 H LEU A 96130.200 -7.352 11.986 1.00 0.00 H  
 ATOM 1409 HA LEU A 96128.515 -4.996 12.523 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96128.984 -6.549 10.027 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96127.379 -5.897 10.300 1.00 0.00 H  
 ATOM 1412 HG LEU A 96129.670 -4.030 10.609 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96129.514 -3.599 8.112 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96128.762 -5.190 7.991 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96130.404 -5.036 8.615 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96127.699 -2.929 10.962 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96126.798 -3.948 9.840 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96127.872 -2.692 9.223 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.738 -8.185 12.396 1.00 0.00 N  
 ATOM 1420 CA GLN A 97126.788 -9.186 12.869 1.00 0.00 C  
 ATOM 1421 C GLN A 97127.263 -10.596 12.518 1.00 0.00 C  
 ATOM 1422 O GLN A 97127.494 -11.419 13.405 1.00 0.00 O  
 ATOM 1423 CB GLN A 97125.402 -8.933 12.267 1.00 0.00 C  
 ATOM 1424 CG GLN A 97124.342 -8.594 13.303 1.00 0.00 C  
 ATOM 1425 CD GLN A 97123.428 -7.470 12.856 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97123.886 -6.454 12.332 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97122.129 -7.646 13.061 1.00 0.00 N  
 ATOM 1428 H GLN A 97128.546 -8.476 11.927 1.00 0.00 H

ATOM 1429 HA GLN A 97126.724 -9.099 13.943 1.00 0.00 H  
 ATOM 1430 1HB GLN A 97125.470 -8.109 11.572 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97125.085 -9.817 11.734 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97123.742 -9.473 13.485 1.00 0.00 H  
 ATOM 1433 2HG GLN A 97124.833 -8.298 14.217 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97121.836 -8.481 13.484 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97121.515 -6.935 12.782 1.00 0.00 H  
 ATOM 1436 N PRO A 98127.412 -10.893 11.216 1.00 0.00 N  
 ATOM 1437 CA PRO A 98127.860 -12.212 10.755 1.00 0.00 C  
 ATOM 1438 C PRO A 98129.343 -12.446 11.021 1.00 0.00 C  
 ATOM 1439 O PRO A 98130.147 -11.514 10.978 1.00 0.00 O  
 ATOM 1440 CB PRO A 98127.586 -12.170 9.252 1.00 0.00 C  
 ATOM 1441 CG PRO A 98127.666 -10.727 8.894 1.00 0.00 C  
 ATOM 1442 CD PRO A 98127.157 -9.972 10.092 1.00 0.00 C  
 ATOM 1443 HA PRO A 98127.285 -13.006 11.208 1.00 0.00 H  
 ATOM 1444 1HB PRO A 98128.334 -12.751 8.731 1.00 0.00 H  
 ATOM 1445 2HB PRO A 98126.605 -12.573 9.050 1.00 0.00 H  
 ATOM 1446 1HG PRO A 98128.691 -10.457 8.689 1.00 0.00 H  
 ATOM 1447 2HG PRO A 98127.045 -10.527 8.034 1.00 0.00 H  
 ATOM 1448 1HD PRO A 98127.704 -9.050 10.216 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98126.100 -9.773 9.990 1.00 0.00 H  
 ATOM 1450 N SER A 99129.699 -13.697 11.297 1.00 0.00 N  
 ATOM 1451 CA SER A 99131.085 -14.054 11.570 1.00 0.00 C  
 ATOM 1452 C SER A 99131.356 -15.507 11.195 1.00 0.00 C  
 ATOM 1453 O SER A 99130.447 -16.337 11.190 1.00 0.00 O  
 ATOM 1454 CB SER A 99131.412 -13.827 13.046 1.00 0.00 C  
 ATOM 1455 OG SER A 99130.829 -14.832 13.858 1.00 0.00 O  
 ATOM 1456 H SER A 99129.012 -14.396 11.317 1.00 0.00 H  
 ATOM 1457 HA SER A 99131.717 -13.416 10.969 1.00 0.00 H  
 ATOM 1458 1HB SER A 99132.483 -13.848 13.185 1.00 0.00 H  
 ATOM 1459 2HB SER A 99131.028 -12.865 13.354 1.00 0.00 H

ATOM 1460 HG SER A 99130.852 -14.555 14.778 1.00 0.00 H  
 ATOM 1461 N GLY A 100132.612 -15.809 10.882 1.00 0.00 N  
 ATOM 1462 CA GLY A 100132.979 -17.163 10.510 1.00 0.00 C  
 ATOM 1463 C GLY A 100134.442 -17.462 10.777 1.00 0.00 C  
 ATOM 1464 O GLY A 100135.251 -17.486 9.850 1.00 0.00 O  
 ATOM 1465 H GLY A 100133.294 -15.106 10.903 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100132.372 -17.856 11.074 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100132.780 -17.301 9.458 1.00 0.00 H  
 ATOM 1468 N PRO A 101134.815 -17.697 12.047 1.00 0.00 N  
 ATOM 1469 CA PRO A 101136.202 -17.996 12.419 1.00 0.00 C  
 ATOM 1470 C PRO A 101136.787 -19.140 11.599 1.00 0.00 C  
 ATOM 1471 O PRO A 101136.061 -20.022 11.139 1.00 0.00 O  
 ATOM 1472 CB PRO A 101136.097 -18.395 13.893 1.00 0.00 C  
 ATOM 1473 CG PRO A 101134.864 -17.718 14.383 1.00 0.00 C  
 ATOM 1474 CD PRO A 101133.917 -17.688 13.216 1.00 0.00 C  
 ATOM 1475 HA PRO A 101136.834 -17.126 12.323 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101136.017 -19.470 13.973 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101136.972 -18.053 14.425 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101134.436 -18.279 15.200 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101135.099 -16.712 14.701 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101133.284 -18.563 13.222 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101133.321 -16.788 13.237 1.00 0.00 H  
 ATOM 1482 N SER A 102138.103 -19.118 11.418 1.00 0.00 N  
 ATOM 1483 CA SER A 102138.787 -20.154 10.651 1.00 0.00 C  
 ATOM 1484 C SER A 102139.818 -20.878 11.512 1.00 0.00 C  
 ATOM 1485 O SER A 102140.315 -20.329 12.495 1.00 0.00 O  
 ATOM 1486 CB SER A 102139.468 -19.545 9.425 1.00 0.00 C  
 ATOM 1487 OG SER A 102138.523 -19.241 8.414 1.00 0.00 O  
 ATOM 1488 H SER A 102138.628 -18.389 11.808 1.00 0.00 H  
 ATOM 1489 HA SER A 102138.046 -20.867 10.322 1.00 0.00 H  
 ATOM 1490 1HB SER A 102139.974 -18.635 9.712 1.00 0.00 H

ATOM 1491 2HB SER A 102140.187 -20.247 9.029 1.00 0.00 H  
 ATOM 1492 HG SER A 102137.839 -18.673 8.775 1.00 0.00 H  
 ATOM 1493 N SER A 103140.134 -22.112 11.136 1.00 0.00 N  
 ATOM 1494 CA SER A 103141.105 -22.911 11.874 1.00 0.00 C  
 ATOM 1495 C SER A 103141.842 -23.868 10.942 1.00 0.00 C  
 ATOM 1496 O SER A 103142.183 -24.986 11.329 1.00 0.00 O  
 ATOM 1497 CB SER A 103140.411 -23.698 12.987 1.00 0.00 C  
 ATOM 1498 OG SER A 103140.321 -22.930 14.174 1.00 0.00 O  
 ATOM 1499 H SER A 103139.703 -22.495 10.344 1.00 0.00 H  
 ATOM 1500 HA SER A 103141.822 -22.236 12.316 1.00 0.00 H  
 ATOM 1501 1HB SER A 103139.413 -23.963 12.668 1.00 0.00 H  
 ATOM 1502 2HB SER A 103140.973 -24.596 13.195 1.00 0.00 H  
 ATOM 1503 HG SER A 103140.572 -23.472 14.925 1.00 0.00 H  
 ATOM 1504 N GLY A 104142.085 -23.422 9.714 1.00 0.00 N  
 ATOM 1505 CA GLY A 104142.779 -24.252 8.748 1.00 0.00 C  
 ATOM 1506 C GLY A 104142.212 -24.111 7.349 1.00 0.00 C  
 ATOM 1507 O GLY A 104141.005 -23.819 7.224 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104142.976 -24.292 6.377 1.00 0.00 O  
 ATOM 1509 H GLY A 104141.789 -22.522 9.463 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104143.822 -23.971 8.732 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104142.700 -25.285 9.054 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

#### Three-Dimensional Structure Coordinate Table 18

ATOM 1 N GLY A 1122.048 -9.408 -2.078 1.00 0.00 N  
 ATOM 2 CA GLY A 1123.433 -8.870 -1.967 1.00 0.00 C  
 ATOM 3 C GLY A 1124.484 -9.960 -2.023 1.00 0.00 C  
 ATOM 4 O GLY A 1125.519 -9.869 -1.362 1.00 0.00 O  
 ATOM 5 1H GLY A 1121.925 -10.215 -1.433 1.00 0.00 H  
 ATOM 6 2H GLY A 1121.865 -9.725 -3.051 1.00 0.00 H

ATOM 7 3H GLY A 1121.357 -8.671 -1.830 1.00 0.00 H  
 ATOM 8 1HA GLY A 1123.604 -8.177 -2.777 1.00 0.00 H  
 ATOM 9 2HA GLY A 1123.527 -8.342 -1.029 1.00 0.00 H  
 ATOM10 N SER A 2124.220 -10.995 -2.815 1.00 0.00 N  
 ATOM11 CA SER A 2125.152 -12.107 -2.955 1.00 0.00 C  
 ATOM12 C SER A 2126.245 -11.777 -3.965 1.00 0.00 C  
 ATOM13 O SER A 2127.392 -12.199 -3.814 1.00 0.00 O  
 ATOM14 CB SER A 2124.407 -13.372 -3.387 1.00 0.00 C  
 ATOM15 OG SER A 2123.438 -13.747 -2.424 1.00 0.00 O  
 ATOM16 H SER A 2123.378 -11.010 -3.315 1.00 0.00 H  
 ATOM17 HA SER A 2125.608 -12.281 -1.992 1.00 0.00 H  
 ATOM18 1HB SER A 2123.909 -13.191 -4.327 1.00 0.00 H  
 ATOM19 2HB SER A 2125.113 -14.181 -3.503 1.00 0.00 H  
 ATOM20 HG SER A 2123.549 -14.675 -2.202 1.00 0.00 H  
 ATOM21 N SER A 3125.882 -11.020 -4.995 1.00 0.00 N  
 ATOM22 CA SER A 3126.833 -10.632 -6.031 1.00 0.00 C  
 ATOM23 C SER A 3126.285 -9.482 -6.869 1.00 0.00 C  
 ATOM24 O SER A 3125.673 -9.699 -7.915 1.00 0.00 O  
 ATOM25 CB SER A 3127.155 -11.826 -6.930 1.00 0.00 C  
 ATOM26 OG SER A 3128.105 -11.477 -7.922 1.00 0.00 O  
 ATOM27 H SER A 3124.954 -10.714 -5.061 1.00 0.00 H  
 ATOM28 HA SER A 3127.739 -10.306 -5.543 1.00 0.00 H  
 ATOM29 1HB SER A 3127.558 -12.628 -6.331 1.00 0.00 H  
 ATOM30 2HB SER A 3126.250 -12.161 -7.418 1.00 0.00 H  
 ATOM31 HG SER A 3128.611 -12.255 -8.168 1.00 0.00 H  
 ATOM32 N GLY A 4126.509 -8.257 -6.404 1.00 0.00 N  
 ATOM33 CA GLY A 4126.031 -7.092 -7.123 1.00 0.00 C  
 ATOM34 C GLY A 4126.690 -5.809 -6.654 1.00 0.00 C  
 ATOM35 O GLY A 4127.332 -5.781 -5.604 1.00 0.00 O  
 ATOM36 H GLY A 4127.003 -8.144 -5.565 1.00 0.00 H  
 ATOM37 1HA GLY A 4126.235 -7.224 -8.176 1.00 0.00 H



ATOM38 2HA GLY A 4124.964 -7.008 -6.982 1.00 0.00 H  
 ATOM39 N SER A 5126.531 -4.745 -7.434 1.00 0.00 N  
 ATOM40 CA SER A 5127.115 -3.453 -7.094 1.00 0.00 C  
 ATOM41 C SER A 5126.123 -2.323 -7.352 1.00 0.00 C  
 ATOM42 O SER A 5125.253 -2.434 -8.216 1.00 0.00 O  
 ATOM43 CB SER A 5128.394 -3.220 -7.900 1.00 0.00 C  
 ATOM44 OG SER A 5128.991 -4.449 -8.277 1.00 0.00 O  
 ATOM45 H SER A 5126.008 -4.831 -8.259 1.00 0.00 H  
 ATOM46 HA SER A 5127.360 -3.467 -6.043 1.00 0.00 H  
 ATOM47 1HB SER A 5128.158 -2.661 -8.793 1.00 0.00 H  
 ATOM48 2HB SER A 5129.097 -2.660 -7.301 1.00 0.00 H  
 ATOM49 HG SER A 5129.599 -4.299 -9.004 1.00 0.00 H  
 ATOM50 N SER A 6126.262 -1.238 -6.599 1.00 0.00 N  
 ATOM51 CA SER A 6125.378 -0.087 -6.747 1.00 0.00 C  
 ATOM52 C SER A 6126.092 1.202 -6.352 1.00 0.00 C  
 ATOM53 O SER A 6126.055 2.192 -7.082 1.00 0.00 O  
 ATOM54 CB SER A 6124.121 -0.271 -5.895 1.00 0.00 C  
 ATOM55 OG SER A 6123.191 0.774 -6.124 1.00 0.00 O  
 ATOM56 H SER A 6126.975 -1.210 -5.927 1.00 0.00 H  
 ATOM57 HA SER A 6125.090 -0.022 -7.786 1.00 0.00 H  
 ATOM58 1HB SER A 6123.654 -1.211 -6.143 1.00 0.00 H  
 ATOM59 2HB SER A 6124.394 -0.269 -4.850 1.00 0.00 H  
 ATOM60 HG SER A 6122.418 0.643 -5.570 1.00 0.00 H  
 ATOM61 N GLY A 7126.738 1.181 -5.192 1.00 0.00 N  
 ATOM62 CA GLY A 7127.452 2.354 -4.720 1.00 0.00 C  
 ATOM63 C GLY A 7128.890 2.390 -5.199 1.00 0.00 C  
 ATOM64 O GLY A 7129.155 2.279 -6.396 1.00 0.00 O  
 ATOM65 H GLY A 7126.733 0.363 -4.652 1.00 0.00 H  
 ATOM66 1HA GLY A 7126.943 3.238 -5.074 1.00 0.00 H  
 ATOM67 2HA GLY A 7127.444 2.356 -3.640 1.00 0.00 H  
 ATOM68 N LEU A 8129.820 2.548 -4.262 1.00 0.00 N

ATOM69 CA LEU A 8131.240 2.602 -4.592 1.00 0.00 C  
 ATOM70 C LEU A 8131.555 3.842 -5.423 1.00 0.00 C  
 ATOM71 O LEU A 8132.462 3.829 -6.255 1.00 0.00 O  
 ATOM72 CB LEU A 8131.660 1.343 -5.354 1.00 0.00 C  
 ATOM73 CG LEU A 8131.271 0.023 -4.684 1.00 0.00 C  
 ATOM74 CD1 LEU A 8131.002 -1.047 -5.732 1.00 0.00 C  
 ATOM75 CD2 LEU A 8132.363 -0.430 -3.727 1.00 0.00 C  
 ATOM76 H LEU A 8129.545 2.634 -3.326 1.00 0.00 H  
 ATOM77 HA LEU A 8131.793 2.655 -3.667 1.00 0.00 H  
 ATOM78 1HB LEU A 8131.208 1.372 -6.334 1.00 0.00 H  
 ATOM79 2HB LEU A 8132.734 1.359 -5.469 1.00 0.00 H  
 ATOM80 HG LEU A 8130.364 0.168 -4.116 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8130.300 -1.767 -5.338 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8131.926 -1.546 -5.983 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8130.589 -0.588 -6.618 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8131.912 -0.895 -2.862 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8132.944 0.425 -3.413 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8133.007 -1.140 -4.224 1.00 0.00 H  
 ATOM87 N ALA A 9130.801 4.910 -5.189 1.00 0.00 N  
 ATOM88 CA ALA A 9131.001 6.157 -5.914 1.00 0.00 C  
 ATOM89 C ALA A 9130.469 7.346 -5.120 1.00 0.00 C  
 ATOM90 O ALA A 9129.258 7.537 -5.006 1.00 0.00 O  
 ATOM91 CB ALA A 9130.329 6.088 -7.278 1.00 0.00 C  
 ATOM92 H ALA A 9130.094 4.858 -4.513 1.00 0.00 H  
 ATOM93 HA ALA A 9132.062 6.285 -6.068 1.00 0.00 H  
 ATOM94 1HB ALA A 9130.944 6.593 -8.008 1.00 0.00 H  
 ATOM95 2HB ALA A 9129.363 6.567 -7.227 1.00 0.00 H  
 ATOM96 3HB ALA A 9130.204 5.055 -7.566 1.00 0.00 H  
 ATOM97 N MET A 10131.383 8.140 -4.573 1.00 0.00 N  
 ATOM98 CA MET A 10131.008 9.311 -3.790 1.00 0.00 C  
 ATOM99 C MET A 10131.358 10.598 -4.537 1.00 0.00 C

ATOM	100	O	MET A	10132.443	10.715	-5.107	1.00	0.00	O
ATOM	101	CB	MET A	10131.713	9.287	-2.432	1.00	0.00	C
ATOM	102	CG	MET A	10130.816	9.682	-1.271	1.00	0.00	C
ATOM	103	SD	MET A	10131.725	9.877	0.275	1.00	0.00	S
ATOM	104	CE	MET A	10130.949	8.618	1.285	1.00	0.00	C
ATOM	105	H	MET A	10132.333	7.936	-4.700	1.00	0.00	H
ATOM	106	HA	MET A	10129.941	9.276	-3.633	1.00	0.00	H
ATOM	107	1HB	MET A	10132.082	8.288	-2.249	1.00	0.00	H
ATOM	108	2HB	MET A	10132.550	9.969	-2.460	1.00	0.00	H
ATOM	109	1HG	MET A	10130.334	10.619	-1.508	1.00	0.00	H
ATOM	110	2HG	MET A	10130.065	8.917	-1.137	1.00	0.00	H
ATOM	111	1HE	MET A	10131.556	8.432	2.159	1.00	0.00	H
ATOM	112	2HE	MET A	10130.851	7.708	0.715	1.00	0.00	H
ATOM	113	3HE	MET A	10129.971	8.957	1.594	1.00	0.00	H
ATOM	114	N	PRO A	11130.444	11.585	-4.545	1.00	0.00	N
ATOM	115	CA	PRO A	11130.676	12.861	-5.227	1.00	0.00	C
ATOM	116	C	PRO A	11131.984	13.523	-4.799	1.00	0.00	C
ATOM	117	O	PRO A	11132.750	13.996	-5.638	1.00	0.00	O
ATOM	118	CB	PRO A	11129.479	13.721	-4.815	1.00	0.00	C
ATOM	119	CG	PRO A	11128.418	12.751	-4.428	1.00	0.00	C
ATOM	120	CD	PRO A	11129.125	11.537	-3.891	1.00	0.00	C
ATOM	121	HA	PRO A	11130.677	12.736	-6.301	1.00	0.00	H
ATOM	122	1HB	PRO A	11129.757	14.356	-3.987	1.00	0.00	H
ATOM	123	2HB	PRO A	11129.167	14.331	-5.651	1.00	0.00	H
ATOM	124	1HG	PRO A	11127.791	13.183	-3.663	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.827	12.488	-5.293	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.225	11.604	-2.818	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.592	10.639	-4.166	1.00	0.00	H
ATOM	128	N	PRO A	12132.267	13.564	-3.482	1.00	0.00	N
ATOM	129	CA	PRO A	12133.497	14.170	-2.962	1.00	0.00	C
ATOM	130	C	PRO A	12134.740	13.414	-3.417	1.00	0.00	C

ATOM	131	O	PRO A	12135.843	13.959	-3.424	1.00	0.00	O
ATOM	132	CB	PRO A	12133.343	14.075	-1.437	1.00	0.00	C
ATOM	133	CG	PRO A	12131.898	13.796	-1.201	1.00	0.00	C
ATOM	134	CD	PRO A	12131.429	13.024	-2.400	1.00	0.00	C
ATOM	135	HA	PRO A	12133.581	15.206	-3.255	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.965	13.276	-1.059	1.00	0.00	H
ATOM	137	2HB	PRO A	12133.641	15.010	-0.985	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.778	13.205	-0.305	1.00	0.00	H
ATOM	139	2HG	PRO A	12131.353	14.723	-1.116	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.606	11.967	-2.262	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.384	13.214	-2.586	1.00	0.00	H
ATOM	142	N	GLY A	13134.552	12.153	-3.795	1.00	0.00	N
ATOM	143	CA	GLY A	13135.667	11.340	-4.247	1.00	0.00	C
ATOM	144	C	GLY A	13135.760	10.021	-3.505	1.00	0.00	C
ATOM	145	O	GLY A	13135.069	9.811	-2.508	1.00	0.00	O
ATOM	146	H	GLY A	13133.649	11.771	-3.768	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.548	11.139	-5.302	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.583	11.889	-4.098	1.00	0.00	H
ATOM	149	N	ASN A	14136.617	9.129	-3.994	1.00	0.00	N
ATOM	150	CA	ASN A	14136.800	7.824	-3.370	1.00	0.00	C
ATOM	151	C	ASN A	14135.497	7.030	-3.376	1.00	0.00	C
ATOM	152	O	ASN A	14134.480	7.493	-3.893	1.00	0.00	O
ATOM	153	CB	ASN A	14137.305	7.985	-1.936	1.00	0.00	C
ATOM	154	CG	ASN A	14138.802	8.218	-1.873	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.268	9.355	-1.952	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.563	7.139	-1.730	1.00	0.00	N
ATOM	157	H	ASN A	14137.139	9.355	-4.791	1.00	0.00	H
ATOM	158	HA	ASN A	14137.538	7.283	-3.944	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.808	8.827	-1.479	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.074	7.090	-1.376	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.122	6.266	-1.674	1.00	0.00	H

ATOM	162	2HD2	ASN A	14140.534	7.262	-1.687	1.00	0.00	H
ATOM	163	N	SER A	15135.535	5.835	-2.798	1.00	0.00	N
ATOM	164	CA	SER A	15134.356	4.977	-2.736	1.00	0.00	C
ATOM	165	C	SER A	15133.482	5.338	-1.541	1.00	0.00	C
ATOM	166	O	SER A	15132.349	5.791	-1.701	1.00	0.00	O
ATOM	167	CB	SER A	15134.773	3.507	-2.654	1.00	0.00	C
ATOM	168	OG	SER A	15136.026	3.369	-2.006	1.00	0.00	O
ATOM	169	H	SER A	15136.375	5.521	-2.403	1.00	0.00	H
ATOM	170	HA	SER A	15133.789	5.130	-3.642	1.00	0.00	H
ATOM	171	1HB	SER A	15134.031	2.956	-2.096	1.00	0.00	H
ATOM	172	2HB	SER A	15134.850	3.100	-3.651	1.00	0.00	H
ATOM	173	HG	SER A	15136.551	2.707	-2.463	1.00	0.00	H
ATOM	174	N	HIS A	16134.017	5.135	-0.341	1.00	0.00	N
ATOM	175	CA	HIS A	16133.285	5.439	0.884	1.00	0.00	C
ATOM	176	C	HIS A	16134.130	6.294	1.823	1.00	0.00	C
ATOM	177	O	HIS A	16133.680	7.333	2.306	1.00	0.00	O
ATOM	178	CB	HIS A	16132.866	4.144	1.586	1.00	0.00	C
ATOM	179	CG	HIS A	16131.397	4.065	1.864	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.777	4.797	2.855	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.421	3.334	1.274	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.485	4.518	2.863	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.244	3.635	1.914	1.00	0.00	N
ATOM	184	H	HIS A	16134.925	4.772	-0.277	1.00	0.00	H
ATOM	185	HA	HIS A	16132.400	5.993	0.611	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.130	3.304	0.962	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.389	4.066	2.528	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.219	5.426	3.463	1.00	0.00	H
ATOM	189	HD2	HIS A	16130.547	2.642	0.453	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.752	4.944	3.532	1.00	0.00	H
ATOM	191	HE2	HIS A	16128.383	3.193	1.759	1.00	0.00	H
ATOM	192	N	GLY A	17135.356	5.850	2.079	1.00	0.00	N

ATOM	193	CA	GLY A	17136.244	6.586	2.959	1.00	0.00	C
ATOM	194	C	GLY A	17137.596	5.918	3.109	1.00	0.00	C
ATOM	195	O	GLY A	17137.910	5.368	4.164	1.00	0.00	O
ATOM	196	H	GLY A	17135.660	5.015	1.665	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.387	7.579	2.560	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.783	6.664	3.933	1.00	0.00	H
ATOM	199	N	LEU A	18138.398	5.966	2.051	1.00	0.00	N
ATOM	200	CA	LEU A	18139.725	5.362	2.070	1.00	0.00	C
ATOM	201	C	LEU A	18140.782	6.382	2.478	1.00	0.00	C
ATOM	202	O	LEU A	18141.246	7.174	1.658	1.00	0.00	O
ATOM	203	CB	LEU A	18140.064	4.782	0.695	1.00	0.00	C
ATOM	204	CG	LEU A	18139.132	3.667	0.215	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.297	3.440	-1.279	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.400	2.383	0.985	1.00	0.00	C
ATOM	207	H	LEU A	18138.091	6.420	1.238	1.00	0.00	H
ATOM	208	HA	LEU A	18139.714	4.562	2.795	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.034	5.585	-0.028	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.069	4.389	0.730	1.00	0.00	H
ATOM	211	HG	LEU A	18138.108	3.960	0.397	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.976	2.615	-1.445	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.697	4.332	-1.737	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.337	3.210	-1.717	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.819	2.382	1.896	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.450	2.321	1.228	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.119	1.534	0.378	1.00	0.00	H
ATOM	218	N	GLU A	19141.161	6.355	3.752	1.00	0.00	N
ATOM	219	CA	GLU A	19142.165	7.278	4.270	1.00	0.00	C
ATOM	220	C	GLU A	19143.124	6.563	5.216	1.00	0.00	C
ATOM	221	O	GLU A	19142.959	5.376	5.502	1.00	0.00	O
ATOM	222	CB	GLU A	19141.490	8.443	4.996	1.00	0.00	C
ATOM	223	CG	GLU A	19140.512	8.005	6.073	1.00	0.00	C

ATOM	224	CD	GLU A	19140.304	9.064	7.137	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.864	8.709	8.251	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.581	10.250	6.858	1.00	0.00	O
ATOM	227	H	GLU A	19140.756	5.701	4.358	1.00	0.00	H
ATOM	228	HA	GLU A	19142.725	7.664	3.432	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.252	9.054	5.458	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.953	9.040	4.272	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.560	7.790	5.610	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.892	7.111	6.544	1.00	0.00	H
ATOM	233	N	VAL A	20144.125	7.292	5.699	1.00	0.00	N
ATOM	234	CA	VAL A	20145.110	6.726	6.613	1.00	0.00	C
ATOM	235	C	VAL A	20144.444	6.188	7.875	1.00	0.00	C
ATOM	236	O	VAL A	20143.639	6.874	8.504	1.00	0.00	O
ATOM	237	CB	VAL A	20146.171	7.770	7.011	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.292	7.118	7.806	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.720	8.469	5.777	1.00	0.00	C
ATOM	240	H	VAL A	20144.204	8.232	5.434	1.00	0.00	H
ATOM	241	HA	VAL A	20145.608	5.913	6.105	1.00	0.00	H
ATOM	242	HB	VAL A	20145.699	8.511	7.639	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.005	7.052	8.845	1.00	0.00	H
ATOM	244	2HG1	VAL A	20148.189	7.712	7.717	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.478	6.126	7.421	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.950	7.735	5.019	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.619	9.009	6.038	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.983	9.161	5.396	1.00	0.00	H
ATOM	249	N	GLY A	21144.787	4.957	8.240	1.00	0.00	N
ATOM	250	CA	GLY A	21144.211	4.348	9.425	1.00	0.00	C
ATOM	251	C	GLY A	21143.134	3.335	9.090	1.00	0.00	C
ATOM	252	O	GLY A	21142.916	2.381	9.838	1.00	0.00	O
ATOM	253	H	GLY A	21145.434	4.458	7.699	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.997	3.853	9.978	1.00	0.00	H

ATOM	255	2HA	GLY A	21143.783	5.123	10.042	1.00	0.00	H
ATOM	256	N	SER A	22142.457	3.543	7.966	1.00	0.00	N
ATOM	257	CA	SER A	22141.395	2.642	7.535	1.00	0.00	C
ATOM	258	C	SER A	22141.962	1.487	6.716	1.00	0.00	C
ATOM	259	O	SER A	22143.018	1.614	6.094	1.00	0.00	O
ATOM	260	CB	SER A	22140.354	3.403	6.713	1.00	0.00	C
ATOM	261	OG	SER A	22140.256	4.752	7.136	1.00	0.00	O
ATOM	262	H	SER A	22142.676	4.323	7.414	1.00	0.00	H
ATOM	263	HA	SER A	22140.921	2.242	8.419	1.00	0.00	H
ATOM	264	1HB	SER A	22140.637	3.385	5.671	1.00	0.00	H
ATOM	265	2HB	SER A	22139.389	2.931	6.832	1.00	0.00	H
ATOM	266	HG	SER A	22140.225	4.786	8.094	1.00	0.00	H
ATOM	267	N	LEU A	23141.255	0.363	6.718	1.00	0.00	N
ATOM	268	CA	LEU A	23141.687	-0.815	5.976	1.00	0.00	C
ATOM	269	C	LEU A	23141.168	-0.774	4.541	1.00	0.00	C
ATOM	270	O	LEU A	23140.116	-0.197	4.268	1.00	0.00	O
ATOM	271	CB	LEU A	23141.202	-2.088	6.670	1.00	0.00	C
ATOM	272	CG	LEU A	23141.626	-2.231	8.132	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.629	-3.086	8.896	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.024	-2.824	8.226	1.00	0.00	C
ATOM	275	H	LEU A	23140.421	0.323	7.234	1.00	0.00	H
ATOM	276	HA	LEU A	23142.767	-0.815	5.955	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.123	-2.109	6.625	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.585	-2.938	6.124	1.00	0.00	H
ATOM	279	HG	LEU A	23141.646	-1.252	8.591	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.808	-2.986	9.957	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.748	-4.120	8.608	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.626	-2.761	8.667	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.555	-2.641	7.303	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.953	-3.888	8.396	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.557	-2.363	9.045	1.00	0.00	H



ATOM	286	N	ALAA	24141.915	-1.389	3.630	1.00	0.00	N
ATOM	287	CA	ALAA	24141.529	-1.423	2.224	1.00	0.00	C
ATOM	288	C	ALAA	24142.121	-2.640	1.521	1.00	0.00	C
ATOM	289	O	ALAA	24143.023	-3.294	2.044	1.00	0.00	O
ATOM	290	CB	ALAA	24141.969	-0.144	1.526	1.00	0.00	C
ATOM	291	H	ALAA	24142.743	-1.830	3.909	1.00	0.00	H
ATOM	292	HA	ALAA	24140.452	-1.479	2.176	1.00	0.00	H
ATOM	293	1HB	ALAA	24141.717	-0.202	0.478	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.037	-0.024	1.634	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.466	0.701	1.972	1.00	0.00	H
ATOM	296	N	GLUA	25141.605	-2.939	0.333	1.00	0.00	N
ATOM	297	CA	GLUA	25142.081	-4.077	-0.443	1.00	0.00	C
ATOM	298	C	GLUA	25142.488	-3.644	-1.848	1.00	0.00	C
ATOM	299	O	GLUA	25142.089	-2.580	-2.320	1.00	0.00	O
ATOM	300	CB	GLUA	25140.999	-5.155	-0.523	1.00	0.00	C
ATOM	301	CG	GLUA	25141.483	-6.460	-1.133	1.00	0.00	C
ATOM	302	CD	GLUA	25140.401	-7.521	-1.174	1.00	0.00	C
ATOM	303	OE1	GLUA	25140.726	-8.709	-0.962	1.00	0.00	O
ATOM	304	OE2	GLUA	25139.228	-7.166	-1.416	1.00	0.00	O
ATOM	305	H	GLUA	25140.888	-2.379	-0.031	1.00	0.00	H
ATOM	306	HA	GLUA	25142.945	-4.484	0.060	1.00	0.00	H
ATOM	307	1HB	GLUA	25140.638	-5.362	0.474	1.00	0.00	H
ATOM	308	2HB	GLUA	25140.181	-4.783	-1.122	1.00	0.00	H
ATOM	309	1HG	GLUA	25141.815	-6.270	-2.143	1.00	0.00	H
ATOM	310	2HG	GLUA	25142.310	-6.832	-0.547	1.00	0.00	H
ATOM	311	N	VALA	26143.287	-4.475	-2.511	1.00	0.00	N
ATOM	312	CA	VALA	26143.748	-4.177	-3.861	1.00	0.00	C
ATOM	313	C	VALA	26143.419	-5.317	-4.819	1.00	0.00	C
ATOM	314	O	VALA	26143.323	-6.475	-4.413	1.00	0.00	O
ATOM	315	CB	VALA	26145.265	-3.918	-3.892	1.00	0.00	C
ATOM	316	CG1	VALA	26145.695	-3.418	-5.262	1.00	0.00	C

ATOM	317	CG2	VAL A	26145.659	-2.927	-2.807	1.00	0.00	C
ATOM	318	H	VAL A	26143.571	-5.309	-2.081	1.00	0.00	H
ATOM	319	HA	VAL A	26143.244	-3.282	-4.196	1.00	0.00	H
ATOM	320	HB	VAL A	26145.774	-4.851	-3.699	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.529	-2.740	-5.153	1.00	0.00	H
ATOM	322	2HG1	VAL A	26144.870	-2.902	-5.732	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.990	-4.257	-5.875	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.736	-2.901	-2.717	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.228	-3.233	-1.866	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.296	-1.944	-3.067	1.00	0.00	H
ATOM	327	N	LYS A	27143.246	-4.980	-6.093	1.00	0.00	N
ATOM	328	CA	LYS A	27142.928	-5.975	-7.111	1.00	0.00	C
ATOM	329	C	LYS A	27144.200	-6.598	-7.678	1.00	0.00	C
ATOM	330	O	LYS A	27145.039	-5.906	-8.254	1.00	0.00	O
ATOM	331	CB	LYS A	27142.112	-5.339	-8.237	1.00	0.00	C
ATOM	332	CG	LYS A	27140.694	-4.972	-7.829	1.00	0.00	C
ATOM	333	CD	LYS A	27139.714	-5.178	-8.973	1.00	0.00	C
ATOM	334	CE	LYS A	27139.400	-6.652	-9.178	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.239	-7.091	-8.356	1.00	0.00	N
ATOM	336	H	LYS A	27143.336	-4.040	-6.356	1.00	0.00	H
ATOM	337	HA	LYS A	27142.339	-6.751	-6.643	1.00	0.00	H
ATOM	338	1HB	LYS A	27142.612	-4.442	-8.567	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.057	-6.034	-9.063	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.397	-5.594	-6.998	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.674	-3.935	-7.532	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.798	-4.653	-8.748	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.146	-4.782	-9.880	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.173	-6.816	-10.221	1.00	0.00	H
ATOM	345	2HE	LYS A	27140.267	-7.233	-8.902	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.386	-8.065	-8.021	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.368	-7.059	-8.922	1.00	0.00	H

ATOM	348	3HZ	LYS A	27138.126	-6.466	-7.532	1.00	0.00	H
ATOM	349	N	GLU A	28144.336	-7.910	-7.512	1.00	0.00	N
ATOM	350	CA	GLU A	28145.506	-8.625	-8.008	1.00	0.00	C
ATOM	351	C	GLU A	28145.304	-10.134	-7.909	1.00	0.00	C
ATOM	352	O	GLU A	28144.222	-10.604	-7.555	1.00	0.00	O
ATOM	353	CB	GLU A	28146.753	-8.211	-7.224	1.00	0.00	C
ATOM	354	CG	GLU A	28147.925	-7.818	-8.108	1.00	0.00	C
ATOM	355	CD	GLU A	28149.250	-7.857	-7.373	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.698	-6.791	-6.900	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.840	-8.953	-7.271	1.00	0.00	O
ATOM	358	H	GLU A	28143.634	-8.408	-7.044	1.00	0.00	H
ATOM	359	HA	GLU A	28145.640	-8.360	-9.046	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.505	-7.368	-6.596	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.064	-9.035	-6.598	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.974	-8.500	-8.943	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.762	-6.814	-8.474	1.00	0.00	H
ATOM	364	N	ASN A	29146.352	-10.887	-8.224	1.00	0.00	N
ATOM	365	CA	ASN A	29146.291	-12.343	-8.170	1.00	0.00	C
ATOM	366	C	ASN A	29146.243	-12.833	-6.724	1.00	0.00	C
ATOM	367	O	ASN A	29145.308	-13.528	-6.327	1.00	0.00	O
ATOM	368	CB	ASN A	29147.497	-12.952	-8.888	1.00	0.00	C
ATOM	369	CG	ASN A	29147.184	-13.332	-10.322	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.964	-14.502	-10.633	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.164	-12.340	-11.206	1.00	0.00	N
ATOM	372	H	ASN A	29147.187	-10.454	-8.498	1.00	0.00	H
ATOM	373	HA	ASN A	29145.388	-12.655	-8.673	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.304	-12.235	-8.894	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.813	-13.840	-8.361	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.348	-11.432	-10.887	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.964	-12.557	-12.141	1.00	0.00	H
ATOM	378	N	PRO A	30147.256	-12.475	-5.915	1.00	0.00	N

ATOM	379	CA	PRO A	30147.323	-12.883	-4.510	1.00	0.00	C
ATOM	380	C	PRO A	30146.375	-12.074	-3.625	1.00	0.00	C
ATOM	381	O	PRO A	30146.600	-10.886	-3.390	1.00	0.00	O
ATOM	382	CB	PRO A	30148.776	-12.596	-4.136	1.00	0.00	C
ATOM	383	CG	PRO A	30149.176	-11.466	-5.020	1.00	0.00	C
ATOM	384	CD	PRO A	30148.413	-11.647	-6.307	1.00	0.00	C
ATOM	385	HA	PRO A	30147.119	-13.936	-4.392	1.00	0.00	H
ATOM	386	1HB	PRO A	30148.836	-12.324	-3.093	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.379	-13.473	-4.321	1.00	0.00	H
ATOM	388	1HG	PRO A	30148.909	-10.527	-4.557	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.238	-11.504	-5.207	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.090	-10.692	-6.690	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.023	-12.160	-7.036	1.00	0.00	H
ATOM	392	N	PRO A	31145.299	-12.705	-3.121	1.00	0.00	N
ATOM	393	CA	PRO A	31144.321	-12.029	-2.261	1.00	0.00	C
ATOM	394	C	PRO A	31144.903	-11.667	-0.899	1.00	0.00	C
ATOM	395	O	PRO A	31144.919	-12.489	0.018	1.00	0.00	O
ATOM	396	CB	PRO A	31143.202	-13.061	-2.109	1.00	0.00	C
ATOM	397	CG	PRO A	31143.863	-14.375	-2.339	1.00	0.00	C
ATOM	398	CD	PRO A	31144.949	-14.120	-3.347	1.00	0.00	C
ATOM	399	HA	PRO A	31143.932	-11.138	-2.731	1.00	0.00	H
ATOM	400	1HB	PRO A	31142.783	-12.998	-1.115	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.433	-12.873	-2.842	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.287	-14.739	-1.415	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.147	-15.083	-2.731	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.797	-14.762	-3.159	1.00	0.00	H
ATOM	405	2HD	PRO A	31144.576	-14.269	-4.350	1.00	0.00	H
ATOM	406	N	PHE A	32145.381	-10.433	-0.773	1.00	0.00	N
ATOM	407	CA	PHE A	32145.964	-9.962	0.477	1.00	0.00	C
ATOM	408	C	PHE A	32145.145	-8.815	1.062	1.00	0.00	C
ATOM	409	O	PHE A	32144.214	-8.318	0.429	1.00	0.00	O

ATOM	410	CB	PHE A	32147.408	-9.509	0.251	1.00	0.00	C
ATOM	411	CG	PHE A	32147.563	-8.546	-0.891	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.148	-7.230	-0.765	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.123	-8.957	-2.089	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.290	-6.342	-1.814	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.267	-8.074	-3.142	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.850	-6.764	-3.004	1.00	0.00	C
ATOM	417	H	PHE A	32145.339	-9.824	-1.540	1.00	0.00	H
ATOM	418	HA	PHE A	32145.959	-10.785	1.177	1.00	0.00	H
ATOM	419	1HB	PHE A	32147.769	-9.024	1.146	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.020	-10.375	0.045	1.00	0.00	H
ATOM	421	HD1	PHE A	32146.710	-6.898	0.165	1.00	0.00	H
ATOM	422	HD2	PHE A	32148.449	-9.981	-2.198	1.00	0.00	H
ATOM	423	HE1	PHE A	32146.963	-5.318	-1.704	1.00	0.00	H
ATOM	424	HE2	PHE A	32148.705	-8.407	-4.071	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.962	-6.072	-3.825	1.00	0.00	H
ATOM	426	N	TYR A	33145.499	-8.400	2.274	1.00	0.00	N
ATOM	427	CA	TYR A	33144.798	-7.311	2.945	1.00	0.00	C
ATOM	428	C	TYR A	33145.784	-6.357	3.611	1.00	0.00	C
ATOM	429	O	TYR A	33146.646	-6.779	4.381	1.00	0.00	O
ATOM	430	CB	TYR A	33143.825	-7.868	3.986	1.00	0.00	C
ATOM	431	CG	TYR A	33142.526	-8.368	3.396	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.669	-7.506	2.726	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.158	-9.703	3.510	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.480	-7.959	2.185	1.00	0.00	C
ATOM	435	CE2	TYR A	33140.973	-10.164	2.972	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.137	-9.289	2.311	1.00	0.00	C
ATOM	437	OH	TYR A	33138.955	-9.745	1.775	1.00	0.00	O
ATOM	438	H	TYR A	33146.251	-8.836	2.728	1.00	0.00	H
ATOM	439	HA	TYR A	33144.238	-6.768	2.198	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.294	-8.692	4.501	1.00	0.00	H

ATOM	441	2HB	TYR A	33143.590	-7.092	4.700	1.00	0.00	H
ATOM	442	HD1	TYR A	33141.940	-6.465	2.628	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.815	-10.386	4.029	1.00	0.00	H
ATOM	444	HE1	TYR A	33139.826	-7.274	1.666	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.704	-11.206	3.072	1.00	0.00	H
ATOM	446	HH	TYR A	33138.298	-9.828	2.469	1.00	0.00	H
ATOM	447	N	GLY A	34145.651	-5.070	3.307	1.00	0.00	N
ATOM	448	CA	GLY A	34146.537	-4.077	3.886	1.00	0.00	C
ATOM	449	C	GLY A	34145.804	-2.819	4.308	1.00	0.00	C
ATOM	450	O	GLY A	34144.764	-2.480	3.743	1.00	0.00	O
ATOM	451	H	GLY A	34144.946	-4.792	2.687	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.024	-4.505	4.749	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.289	-3.814	3.156	1.00	0.00	H
ATOM	454	N	VAL A	35146.346	-2.128	5.305	1.00	0.00	N
ATOM	455	CA	VAL A	35145.736	-0.901	5.804	1.00	0.00	C
ATOM	456	C	VAL A	35146.431	0.330	5.231	1.00	0.00	C
ATOM	457	O	VAL A	35147.642	0.322	5.004	1.00	0.00	O
ATOM	458	CB	VAL A	35145.779	-0.837	7.344	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.217	-0.819	7.843	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.015	0.376	7.851	1.00	0.00	C
ATOM	461	H	VAL A	35147.176	-2.450	5.715	1.00	0.00	H
ATOM	462	HA	VAL A	35144.701	-0.894	5.493	1.00	0.00	H
ATOM	463	HB	VAL A	35145.301	-1.725	7.733	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.875	-1.161	7.059	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.309	-1.469	8.701	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.487	0.189	8.125	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.349	1.258	7.325	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.194	0.499	8.909	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.958	0.233	7.680	1.00	0.00	H
ATOM	470	N	ILE A	36145.660	1.386	4.999	1.00	0.00	N
ATOM	471	CA	ILE A	36146.203	2.624	4.454	1.00	0.00	C

ATOM	472	C	ILE A	36147.172	3.275	5.434	1.00	0.00	C
ATOM	473	O	ILE A	36146.898	3.358	6.631	1.00	0.00	O
ATOM	474	CB	ILE A	36145.085	3.628	4.109	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.024	2.962	3.230	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.664	4.852	3.414	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.872	3.878	2.875	1.00	0.00	C
ATOM	478	H	ILE A	36144.702	1.332	5.201	1.00	0.00	H
ATOM	479	HA	ILE A	36146.734	2.383	3.544	1.00	0.00	H
ATOM	480	HB	ILE A	36144.627	3.952	5.031	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.482	2.636	2.309	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.620	2.106	3.750	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.797	5.645	4.134	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.990	5.179	2.637	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.620	4.599	2.978	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.416	3.542	1.956	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.239	4.886	2.749	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.139	3.858	3.668	1.00	0.00	H
ATOM	489	N	ARG A	37148.308	3.734	4.920	1.00	0.00	N
ATOM	490	CA	ARG A	37149.320	4.376	5.750	1.00	0.00	C
ATOM	491	C	ARG A	37149.586	5.803	5.282	1.00	0.00	C
ATOM	492	O	ARG A	37149.349	6.762	6.015	1.00	0.00	O
ATOM	493	CB	ARG A	37150.618	3.568	5.724	1.00	0.00	C
ATOM	494	CG	ARG A	37150.417	2.085	5.989	1.00	0.00	C
ATOM	495	CD	ARG A	37149.715	1.846	7.317	1.00	0.00	C
ATOM	496	NE	ARG A	37150.302	2.636	8.396	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.687	2.887	9.550	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.468	2.412	9.778	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.290	3.616	10.478	1.00	0.00	N
ATOM	500	H	ARG A	37148.470	3.638	3.958	1.00	0.00	H
ATOM	501	HA	ARG A	37148.948	4.407	6.763	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.079	3.679	4.753	1.00	0.00	H

ATOM	503	2HB	ARG	A	37151.288	3.958	6.476	1.00	0.00	H
ATOM	504	1HG	ARG	A	37149.818	1.665	5.196	1.00	0.00	H
ATOM	505	2HG	ARG	A	37151.382	1.599	6.010	1.00	0.00	H
ATOM	506	1HD	ARG	A	37148.674	2.115	7.212	1.00	0.00	H
ATOM	507	2HD	ARG	A	37149.793	0.798	7.567	1.00	0.00	H
ATOM	508	HE	ARG	A	37151.201	2.999	8.255	1.00	0.00	H
ATOM	509	1HH1	ARG	A	37148.007	1.862	9.082	1.00	0.00	H
ATOM	510	2HH1	ARG	A	37148.011	2.605	10.646	1.00	0.00	H
ATOM	511	1HH2	ARG	A	37151.209	3.977	10.312	1.00	0.00	H
ATOM	512	2HH2	ARG	A	37149.828	3.806	11.345	1.00	0.00	H
ATOM	513	N	TRP	A	38150.083	5.936	4.055	1.00	0.00	N
ATOM	514	CA	TRP	A	38150.382	7.248	3.491	1.00	0.00	C
ATOM	515	C	TRP	A	38149.644	7.456	2.172	1.00	0.00	C
ATOM	516	O	TRP	A	38149.633	6.579	1.308	1.00	0.00	O
ATOM	517	CB	TRP	A	38151.892	7.404	3.276	1.00	0.00	C
ATOM	518	CG	TRP	A	38152.262	8.620	2.479	1.00	0.00	C
ATOM	519	CD1	TRP	A	38152.533	9.868	2.963	1.00	0.00	C
ATOM	520	CD2	TRP	A	38152.396	8.703	1.055	1.00	0.00	C
ATOM	521	NE1	TRP	A	38152.827	10.721	1.926	1.00	0.00	N
ATOM	522	CE2	TRP	A	38152.751	10.030	0.745	1.00	0.00	C
ATOM	523	CE3	TRP	A	38152.252	7.784	0.013	1.00	0.00	C
ATOM	524	CZ2	TRP	A	38152.962	10.458	-0.563	1.00	0.00	C
ATOM	525	CZ3	TRP	A	38152.463	8.210	-1.286	1.00	0.00	C
ATOM	526	CH2	TRP	A	38152.814	9.536	-1.565	1.00	0.00	C
ATOM	527	H	TRP	A	38150.253	5.134	3.518	1.00	0.00	H
ATOM	528	HA	TRP	A	38150.049	7.995	4.196	1.00	0.00	H
ATOM	529	1HB	TRP	A	38152.379	7.476	4.237	1.00	0.00	H
ATOM	530	2HB	TRP	A	38152.266	6.535	2.754	1.00	0.00	H
ATOM	531	HD1	TRP	A	38152.514	10.132	4.010	1.00	0.00	H
ATOM	532	HE1	TRP	A	38153.056	11.670	2.018	1.00	0.00	H
ATOM	533	HE3	TRP	A	38151.981	6.759	0.207	1.00	0.00	H



ATOM	534	HZ2	TRP A	38153.231	11.478	-0.795	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.355	7.513	-2.104	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.969	9.824	-2.593	1.00	0.00	H
ATOM	537	N	ILE A	39149.036	8.627	2.024	1.00	0.00	N
ATOM	538	CA	ILE A	39148.303	8.964	0.811	1.00	0.00	C
ATOM	539	C	ILE A	39148.816	10.273	0.222	1.00	0.00	C
ATOM	540	O	ILE A	39148.549	11.350	0.755	1.00	0.00	O
ATOM	541	CB	ILE A	39146.790	9.092	1.081	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.274	7.856	1.822	1.00	0.00	C
ATOM	543	CG2	ILE A	39146.032	9.287	-0.224	1.00	0.00	C
ATOM	544	CD1	ILE A	39145.101	8.145	2.733	1.00	0.00	C
ATOM	545	H	ILE A	39149.088	9.286	2.747	1.00	0.00	H
ATOM	546	HA	ILE A	39148.456	8.172	0.093	1.00	0.00	H
ATOM	547	HB	ILE A	39146.629	9.965	1.695	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.960	7.118	1.101	1.00	0.00	H
ATOM	549	2HG1	ILE A	39147.071	7.447	2.425	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.622	8.342	-0.547	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.707	9.664	-0.979	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.231	9.995	-0.073	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.233	8.383	2.137	1.00	0.00	H
ATOM	554	2HD1	ILE A	39145.340	8.981	3.373	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.894	7.275	3.339	1.00	0.00	H
ATOM	556	N	GLY A	40149.562	10.175	-0.874	1.00	0.00	N
ATOM	557	CA	GLY A	40150.105	11.364	-1.504	1.00	0.00	C
ATOM	558	C	GLY A	40150.637	11.098	-2.898	1.00	0.00	C
ATOM	559	O	GLY A	40150.426	10.024	-3.459	1.00	0.00	O
ATOM	560	H	GLY A	40149.748	9.291	-1.254	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.331	12.112	-1.563	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.908	11.743	-0.891	1.00	0.00	H
ATOM	563	N	GLN A	41151.328	12.086	-3.457	1.00	0.00	N
ATOM	564	CA	GLN A	41151.895	11.967	-4.793	1.00	0.00	C

ATOM	565	C	GLN A	41153.376	12.344	-4.788	1.00	0.00	C
ATOM	566	O	GLN A	41153.728	13.492	-4.515	1.00	0.00	O
ATOM	567	CB	GLN A	41151.130	12.866	-5.763	1.00	0.00	C
ATOM	568	CG	GLN A	41149.620	12.715	-5.668	1.00	0.00	C
ATOM	569	CD	GLN A	41148.895	14.042	-5.778	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.894	14.842	-4.843	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.272	14.279	-6.925	1.00	0.00	N
ATOM	572	H	GLN A	41151.459	12.918	-2.958	1.00	0.00	H
ATOM	573	HA	GLN A	41151.792	10.941	-5.109	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.379	13.894	-5.556	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.432	12.627	-6.770	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.283	12.072	-6.467	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.375	12.265	-4.717	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.316	13.594	-7.625	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.796	15.129	-7.027	1.00	0.00	H
ATOM	580	N	PRO A	42154.268	11.383	-5.087	1.00	0.00	N
ATOM	581	CA	PRO A	42155.715	11.629	-5.110	1.00	0.00	C
ATOM	582	C	PRO A	42156.096	12.747	-6.075	1.00	0.00	C
ATOM	583	O	PRO A	42155.335	13.080	-6.984	1.00	0.00	O
ATOM	584	CB	PRO A	42156.302	10.294	-5.578	1.00	0.00	C
ATOM	585	CG	PRO A	42155.260	9.283	-5.249	1.00	0.00	C
ATOM	586	CD	PRO A	42153.945	9.985	-5.423	1.00	0.00	C
ATOM	587	HA	PRO A	42156.090	11.865	-4.124	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.493	10.335	-6.641	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.223	10.097	-5.049	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.331	8.445	-5.926	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.376	8.954	-4.227	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.605	9.903	-6.446	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.209	9.585	-4.743	1.00	0.00	H
ATOM	594	N	PRO A	43157.285	13.342	-5.890	1.00	0.00	N
ATOM	595	CA	PRO A	43157.767	14.428	-6.748	1.00	0.00	C

ATOM	596	C	PRO A	43158.173	13.935	-8.132	1.00	0.00	C
ATOM	597	O	PRO A	43159.339	13.621	-8.371	1.00	0.00	O
ATOM	598	CB	PRO A	43158.985	14.962	-5.996	1.00	0.00	C
ATOM	599	CG	PRO A	43159.475	13.802	-5.200	1.00	0.00	C
ATOM	600	CD	PRO A	43158.254	13.005	-4.829	1.00	0.00	C
ATOM	601	HA	PRO A	43157.029	15.211	-6.848	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.727	15.298	-6.705	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.689	15.781	-5.358	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.145	13.204	-5.799	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.978	14.153	-4.312	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.478	11.948	-4.834	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.885	13.309	-3.860	1.00	0.00	H
ATOM	608	N	GLY A	44157.207	13.870	-9.040	1.00	0.00	N
ATOM	609	CA	GLY A	44157.488	13.414	-10.387	1.00	0.00	C
ATOM	610	C	GLY A	44156.252	12.910	-11.101	1.00	0.00	C
ATOM	611	O	GLY A	44155.972	13.313	-12.231	1.00	0.00	O
ATOM	612	H	GLY A	44156.296	14.134	-8.793	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.906	14.235	-10.951	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.214	12.617	-10.341	1.00	0.00	H
ATOM	615	N	LEU A	45155.510	12.027	-10.443	1.00	0.00	N
ATOM	616	CA	LEU A	45154.295	11.469	-11.028	1.00	0.00	C
ATOM	617	C	LEU A	45153.086	11.765	-10.150	1.00	0.00	C
ATOM	618	O	LEU A	45152.975	11.248	-9.038	1.00	0.00	O
ATOM	619	CB	LEU A	45154.444	9.959	-11.218	1.00	0.00	C
ATOM	620	CG	LEU A	45154.988	9.203	-10.004	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.629	7.726	-10.087	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.495	9.388	-9.894	1.00	0.00	C
ATOM	623	H	LEU A	45155.782	11.746	-9.543	1.00	0.00	H
ATOM	624	HA	LEU A	45154.148	11.931	-11.991	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.475	9.551	-11.466	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.111	9.787	-12.049	1.00	0.00	H

ATOM	627	HG	LEU A	45154.535	9.607	-9.109	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.985	7.558	-10.938	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.117	7.429	-9.184	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.531	7.142	-10.197	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.875	9.815	-10.811	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.964	8.431	-9.722	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.717	10.051	-9.070	1.00	0.00	H
ATOM	634	N	ASN A	46152.178	12.595	-10.653	1.00	0.00	N
ATOM	635	CA	ASN A	46150.981	12.946	-9.903	1.00	0.00	C
ATOM	636	C	ASN A	46150.007	11.773	-9.876	1.00	0.00	C
ATOM	637	O	ASN A	46149.382	11.447	-10.884	1.00	0.00	O
ATOM	638	CB	ASN A	46150.308	14.173	-10.523	1.00	0.00	C
ATOM	639	CG	ASN A	46149.087	14.620	-9.744	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.139	15.592	-8.989	1.00	0.00	O
ATOM	641	ND2	ASN A	46147.978	13.912	-9.923	1.00	0.00	N
ATOM	642	H	ASN A	46152.317	12.977	-11.545	1.00	0.00	H
ATOM	643	HA	ASN A	46151.277	13.178	-8.890	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.014	14.989	-10.547	1.00	0.00	H
ATOM	645	2HB	ASN A	46150.002	13.936	-11.531	1.00	0.00	H
ATOM	646	1HD2	ASN A	46148.010	13.150	-10.539	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.173	14.179	-9.431	1.00	0.00	H
ATOM	648	N	GLU A	47149.886	11.143	-8.714	1.00	0.00	N
ATOM	649	CA	GLU A	47148.991	10.003	-8.548	1.00	0.00	C
ATOM	650	C	GLU A	47148.795	9.679	-7.072	1.00	0.00	C
ATOM	651	O	GLU A	47149.757	9.386	-6.360	1.00	0.00	O
ATOM	652	CB	GLU A	47149.544	8.780	-9.283	1.00	0.00	C
ATOM	653	CG	GLU A	47151.053	8.631	-9.175	1.00	0.00	C
ATOM	654	CD	GLU A	47151.612	7.635	-10.172	1.00	0.00	C
ATOM	655	OE1	GLU A	47152.051	6.547	-9.742	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.611	7.942	-11.382	1.00	0.00	O
ATOM	657	H	GLU A	47150.413	11.450	-7.947	1.00	0.00	H

ATOM	658	HA	GLU A	47148.035	10.269	-8.975	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.085	7.892	-8.873	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.285	8.856	-10.329	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.509	9.591	-9.354	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.299	8.297	-8.178	1.00	0.00	H
ATOM	663	N	VAL A	48147.550	9.722	-6.615	1.00	0.00	N
ATOM	664	CA	VAL A	48147.242	9.421	-5.223	1.00	0.00	C
ATOM	665	C	VAL A	48147.544	7.961	-4.911	1.00	0.00	C
ATOM	666	O	VAL A	48146.763	7.070	-5.245	1.00	0.00	O
ATOM	667	CB	VAL A	48145.766	9.714	-4.894	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.506	9.548	-3.405	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.379	11.112	-5.356	1.00	0.00	C
ATOM	670	H	VAL A	48146.821	9.956	-7.228	1.00	0.00	H
ATOM	671	HA	VAL A	48147.863	10.050	-4.600	1.00	0.00	H
ATOM	672	HB	VAL A	48145.151	9.001	-5.424	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.621	8.509	-3.133	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.501	9.870	-3.176	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.211	10.146	-2.848	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.377	11.783	-4.511	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.394	11.086	-5.797	1.00	0.00	H
ATOM	678	3HG2	VAL A	48146.092	11.459	-6.089	1.00	0.00	H
ATOM	679	N	LEU A	49148.686	7.722	-4.274	1.00	0.00	N
ATOM	680	CA	LEU A	49149.095	6.369	-3.922	1.00	0.00	C
ATOM	681	C	LEU A	49148.953	6.132	-2.425	1.00	0.00	C
ATOM	682	O	LEU A	49149.654	6.746	-1.620	1.00	0.00	O
ATOM	683	CB	LEU A	49150.541	6.122	-4.355	1.00	0.00	C
ATOM	684	CG	LEU A	49150.814	6.327	-5.847	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.298	6.555	-6.090	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.318	5.131	-6.647	1.00	0.00	C
ATOM	687	H	LEU A	49149.268	8.474	-4.036	1.00	0.00	H
ATOM	688	HA	LEU A	49148.448	5.681	-4.446	1.00	0.00	H

ATOM	689	1HB	LEU A	49151.181	6.791	-3.798	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.802	5.106	-4.101	1.00	0.00	H
ATOM	691	HG	LEU A	49150.282	7.203	-6.187	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.427	7.234	-6.919	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.774	5.613	-6.320	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.747	6.979	-5.205	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.366	4.243	-6.034	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.940	5.000	-7.520	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.298	5.303	-6.954	1.00	0.00	H
ATOM	698	N	ALAA	50148.042	5.240	-2.056	1.00	0.00	N
ATOM	699	CA	ALAA	50147.812	4.926	-0.654	1.00	0.00	C
ATOM	700	C	ALAA	50148.671	3.747	-0.208	1.00	0.00	C
ATOM	701	O	ALAA	50148.497	2.626	-0.684	1.00	0.00	O
ATOM	702	CB	ALAA	50146.339	4.630	-0.414	1.00	0.00	C
ATOM	703	H	ALAA	50147.513	4.783	-2.742	1.00	0.00	H
ATOM	704	HA	ALAA	50148.080	5.796	-0.072	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.190	3.561	-0.361	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.753	5.036	-1.225	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.028	5.082	0.517	1.00	0.00	H
ATOM	708	N	GLYA	51149.597	4.008	0.708	1.00	0.00	N
ATOM	709	CA	GLYA	51150.468	2.958	1.202	1.00	0.00	C
ATOM	710	C	GLYA	51149.713	1.900	1.982	1.00	0.00	C
ATOM	711	O	GLYA	51149.055	2.203	2.976	1.00	0.00	O
ATOM	712	H	GLYA	51149.690	4.921	1.053	1.00	0.00	H
ATOM	713	1HA	GLYA	51150.959	2.489	0.362	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.216	3.398	1.845	1.00	0.00	H
ATOM	715	N	LEU A	52149.807	0.654	1.530	1.00	0.00	N
ATOM	716	CA	LEU A	52149.126	-0.452	2.192	1.00	0.00	C
ATOM	717	C	LEU A	52150.130	-1.409	2.827	1.00	0.00	C
ATOM	718	O	LEU A	52151.050	-1.890	2.165	1.00	0.00	O
ATOM	719	CB	LEU A	52148.244	-1.207	1.196	1.00	0.00	C

ATOM	720	CG	LEU A	52147.058	-0.410	0.649	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.479	-1.094	-0.580	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.992	-0.242	1.721	1.00	0.00	C
ATOM	723	H	LEU A	52150.347	0.474	0.732	1.00	0.00	H
ATOM	724	HA	LEU A	52148.501	-0.039	2.970	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.862	-1.514	0.364	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.862	-2.091	1.683	1.00	0.00	H
ATOM	727	HG	LEU A	52147.398	0.572	0.356	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.128	-0.346	-1.275	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.655	-1.725	-0.285	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.243	-1.694	-1.051	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.248	-1.018	1.614	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.522	0.725	1.612	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.448	-0.312	2.697	1.00	0.00	H
ATOM	734	N	GLU A	53149.947	-1.681	4.115	1.00	0.00	N
ATOM	735	CA	GLU A	53150.836	-2.581	4.842	1.00	0.00	C
ATOM	736	C	GLU A	53150.262	-3.993	4.885	1.00	0.00	C
ATOM	737	O	GLU A	53149.252	-4.244	5.543	1.00	0.00	O
ATOM	738	CB	GLU A	53151.064	-2.068	6.264	1.00	0.00	C
ATOM	739	CG	GLU A	53152.012	-2.933	7.078	1.00	0.00	C
ATOM	740	CD	GLU A	53151.582	-3.065	8.526	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.978	-4.057	9.174	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.850	-2.178	9.012	1.00	0.00	O
ATOM	743	H	GLU A	53149.195	-1.267	4.589	1.00	0.00	H
ATOM	744	HA	GLU A	53151.780	-2.604	4.321	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.476	-1.070	6.213	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.114	-2.029	6.778	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.049	-3.917	6.638	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.996	-2.489	7.050	1.00	0.00	H
ATOM	749	N	LEU A	54150.912	-4.913	4.179	1.00	0.00	N
ATOM	750	CA	LEU A	54150.466	-6.301	4.137	1.00	0.00	C

ATOM	751	C	LEU A	54150.720	-6.995	5.472	1.00	0.00	C
ATOM	752	O	LEU A	54151.833	-6.966	5.996	1.00	0.00	O
ATOM	753	CB	LEU A	54151.180	-7.055	3.014	1.00	0.00	C
ATOM	754	CG	LEU A	54151.124	-6.379	1.643	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.325	-6.780	0.802	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.829	-6.734	0.928	1.00	0.00	C
ATOM	757	H	LEU A	54151.711	-4.652	3.675	1.00	0.00	H
ATOM	758	HA	LEU A	54149.405	-6.301	3.941	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.218	-7.173	3.292	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.735	-8.035	2.926	1.00	0.00	H
ATOM	761	HG	LEU A	54151.151	-5.308	1.775	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.606	-7.797	1.034	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.152	-6.120	1.018	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.071	-6.708	-0.246	1.00	0.00	H
ATOM	765	1HD2	LEU A	54148.988	-6.414	1.527	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.779	-7.803	0.782	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.798	-6.238	-0.030	1.00	0.00	H
ATOM	768	N	GLU A	55149.679	-7.618	6.016	1.00	0.00	N
ATOM	769	CA	GLU A	55149.791	-8.320	7.289	1.00	0.00	C
ATOM	770	C	GLU A	55150.792	-9.466	7.192	1.00	0.00	C
ATOM	771	O	GLU A	55151.461	-9.804	8.168	1.00	0.00	O
ATOM	772	CB	GLU A	55148.424	-8.856	7.721	1.00	0.00	C
ATOM	773	CG	GLU A	55147.393	-7.766	7.967	1.00	0.00	C
ATOM	774	CD	GLU A	55146.208	-8.256	8.774	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.424	-8.798	9.878	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.061	-8.098	8.301	1.00	0.00	O
ATOM	777	H	GLU A	55148.817	-7.606	5.550	1.00	0.00	H
ATOM	778	HA	GLU A	55150.140	-7.614	8.027	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.047	-9.510	6.950	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.544	-9.420	8.634	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.865	-6.957	8.505	1.00	0.00	H



ATOM	782	2HG	GLU A	55147.037	-7.403	7.013	1.00	0.00	H
ATOM	783	N	ASP A	56150.887	-10.062	6.007	1.00	0.00	N
ATOM	784	CA	ASP A	56151.807	-11.171	5.782	1.00	0.00	C
ATOM	785	C	ASP A	56153.176	-10.660	5.344	1.00	0.00	C
ATOM	786	O	ASP A	56153.277	-9.692	4.590	1.00	0.00	O
ATOM	787	CB	ASP A	56151.242	-12.122	4.724	1.00	0.00	C
ATOM	788	CG	ASP A	56150.016	-12.867	5.213	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.315	-12.338	6.102	1.00	0.00	O
ATOM	790	OD2	ASP A	56149.756	-13.978	4.706	1.00	0.00	O
ATOM	791	H	ASP A	56150.327	-9.747	5.268	1.00	0.00	H
ATOM	792	HA	ASP A	56151.916	-11.706	6.713	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.969	-11.554	3.848	1.00	0.00	H
ATOM	794	2HB	ASP A	56151.999	-12.845	4.460	1.00	0.00	H
ATOM	795	N	GLU A	57154.228	-11.318	5.821	1.00	0.00	N
ATOM	796	CA	GLU A	57155.591	-10.931	5.478	1.00	0.00	C
ATOM	797	C	GLU A	57156.010	-11.538	4.143	1.00	0.00	C
ATOM	798	O	GLU A	57156.389	-12.708	4.074	1.00	0.00	O
ATOM	799	CB	GLU A	57156.560	-11.369	6.578	1.00	0.00	C
ATOM	800	CG	GLU A	57156.757	-10.326	7.666	1.00	0.00	C
ATOM	801	CD	GLU A	57158.201	-10.219	8.116	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.443	-10.236	9.341	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.090	-10.120	7.244	1.00	0.00	O
ATOM	804	H	GLU A	57154.084	-12.083	6.417	1.00	0.00	H
ATOM	805	HA	GLU A	57155.618	-9.855	5.394	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.181	-12.270	7.037	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.521	-11.579	6.132	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.443	-9.365	7.287	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.148	-10.593	8.516	1.00	0.00	H
ATOM	810	N	CYS A	58155.939	-10.737	3.086	1.00	0.00	N
ATOM	811	CA	CYS A	58156.312	-11.196	1.753	1.00	0.00	C
ATOM	812	C	CYS A	58157.706	-10.705	1.378	1.00	0.00	C

ATOM	813	O	CYS A	58157.990	-9.508	1.434	1.00	0.00	O
ATOM	814	CB	CYS A	58155.293	-10.710	0.720	1.00	0.00	C
ATOM	815	SG	CYS A	58154.970	-11.892	-0.610	1.00	0.00	S
ATOM	816	H	CYS A	58155.630	-9.814	3.204	1.00	0.00	H
ATOM	817	HA	CYS A	58156.313	-12.275	1.762	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.355	-10.512	1.217	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.655	-9.797	0.269	1.00	0.00	H
ATOM	820	HG	CYS A	58155.668	-11.801	-1.262	1.00	0.00	H
ATOM	821	N	ALAA	59158.573	-11.637	0.996	1.00	0.00	N
ATOM	822	CA	ALAA	59159.939	-11.299	0.612	1.00	0.00	C
ATOM	823	C	ALAA	59159.962	-10.500	-0.687	1.00	0.00	C
ATOM	824	O	ALAA	59159.391	-10.918	-1.695	1.00	0.00	O
ATOM	825	CB	ALAA	59160.774	-12.562	0.473	1.00	0.00	C
ATOM	826	H	ALAA	59158.289	-12.574	0.971	1.00	0.00	H
ATOM	827	HA	ALAA	59160.367	-10.697	1.401	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.326	-13.212	-0.264	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.818	-13.072	1.424	1.00	0.00	H
ATOM	830	3HB	ALAA	59161.774	-12.299	0.160	1.00	0.00	H
ATOM	831	N	GLY A	60160.626	-9.350	-0.656	1.00	0.00	N
ATOM	832	CA	GLY A	60160.712	-8.510	-1.837	1.00	0.00	C
ATOM	833	C	GLY A	60159.849	-7.269	-1.730	1.00	0.00	C
ATOM	834	O	GLY A	60159.386	-6.737	-2.739	1.00	0.00	O
ATOM	835	H	GLY A	60161.061	-9.068	0.175	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.740	-8.211	-1.978	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.394	-9.083	-2.696	1.00	0.00	H
ATOM	838	N	CYS A	61159.632	-6.805	-0.503	1.00	0.00	N
ATOM	839	CA	CYS A	61158.819	-5.618	-0.266	1.00	0.00	C
ATOM	840	C	CYS A	61159.616	-4.552	0.480	1.00	0.00	C
ATOM	841	O	CYS A	61160.817	-4.705	0.703	1.00	0.00	O
ATOM	842	CB	CYS A	61157.564	-5.983	0.530	1.00	0.00	C
ATOM	843	SG	CYS A	61156.594	-7.324	-0.199	1.00	0.00	S

ATOM	844	H	CYS A	61160.029	-7.273	0.262	1.00	0.00	H
ATOM	845	HA	CYS A	61158.523	-5.222	-1.226	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.855	-6.292	1.523	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.926	-5.115	0.600	1.00	0.00	H
ATOM	848	HG	CYS A	61157.151	-7.784	-0.830	1.00	0.00	H
ATOM	849	N	THR A	62158.940	-3.474	0.862	1.00	0.00	N
ATOM	850	CA	THR A	62159.585	-2.383	1.584	1.00	0.00	C
ATOM	851	C	THR A	62159.088	-2.314	3.024	1.00	0.00	C
ATOM	852	O	THR A	62158.277	-3.134	3.451	1.00	0.00	O
ATOM	853	CB	THR A	62159.322	-1.052	0.877	1.00	0.00	C
ATOM	854	OG1	THR A	62157.934	-0.864	0.664	1.00	0.00	O
ATOM	855	CG2	THR A	62160.011	-0.941	-0.466	1.00	0.00	C
ATOM	856	H	THR A	62157.984	-3.411	0.655	1.00	0.00	H
ATOM	857	HA	THR A	62160.647	-2.573	1.591	1.00	0.00	H
ATOM	858	HB	THR A	62159.682	-0.247	1.501	1.00	0.00	H
ATOM	859	HG1	THR A	62157.781	0.014	0.305	1.00	0.00	H
ATOM	860	1HG2	THR A	62159.343	-1.283	-1.243	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.903	-1.550	-0.464	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.279	0.090	-0.648	1.00	0.00	H
ATOM	863	N	ASP A	63159.579	-1.328	3.767	1.00	0.00	N
ATOM	864	CA	ASP A	63159.185	-1.150	5.160	1.00	0.00	C
ATOM	865	C	ASP A	63158.586	0.236	5.382	1.00	0.00	C
ATOM	866	O	ASP A	63158.719	0.815	6.460	1.00	0.00	O
ATOM	867	CB	ASP A	63160.389	-1.351	6.082	1.00	0.00	C
ATOM	868	CG	ASP A	63161.572	-0.489	5.687	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.241	-0.822	4.686	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.828	0.519	6.377	1.00	0.00	O
ATOM	871	H	ASP A	63160.223	-0.704	3.369	1.00	0.00	H
ATOM	872	HA	ASP A	63158.438	-1.894	5.391	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.106	-1.098	7.093	1.00	0.00	H
ATOM	874	2HB	ASP A	63160.694	-2.387	6.045	1.00	0.00	H

ATOM	875	N	GLY A	64157.927	0.761	4.354	1.00	0.00	N
ATOM	876	CA	GLY A	64157.315	2.073	4.457	1.00	0.00	C
ATOM	877	C	GLY A	64158.031	3.113	3.615	1.00	0.00	C
ATOM	878	O	GLY A	64158.120	4.278	4.002	1.00	0.00	O
ATOM	879	H	GLY A	64157.853	0.252	3.520	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.288	2.007	4.131	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.335	2.387	5.490	1.00	0.00	H
ATOM	882	N	THR A	65158.540	2.691	2.462	1.00	0.00	N
ATOM	883	CA	THR A	65159.250	3.594	1.565	1.00	0.00	C
ATOM	884	C	THR A	65158.857	3.338	0.113	1.00	0.00	C
ATOM	885	O	THR A	65158.795	2.191	-0.331	1.00	0.00	O
ATOM	886	CB	THR A	65160.762	3.429	1.732	1.00	0.00	C
ATOM	887	OG1	THR A	65161.140	2.074	1.562	1.00	0.00	O
ATOM	888	CG2	THR A	65161.267	3.880	3.085	1.00	0.00	C
ATOM	889	H	THR A	65158.435	1.749	2.210	1.00	0.00	H
ATOM	890	HA	THR A	65158.977	4.604	1.827	1.00	0.00	H
ATOM	891	HB	THR A	65161.263	4.018	0.978	1.00	0.00	H
ATOM	892	HG1	THR A	65160.699	1.533	2.222	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.528	3.652	3.840	1.00	0.00	H
ATOM	894	2HG2	THR A	65161.445	4.945	3.066	1.00	0.00	H
ATOM	895	3HG2	THR A	65162.188	3.365	3.315	1.00	0.00	H
ATOM	896	N	PHE A	66158.592	4.413	-0.621	1.00	0.00	N
ATOM	897	CA	PHE A	66158.205	4.306	-2.023	1.00	0.00	C
ATOM	898	C	PHE A	66159.276	4.900	-2.931	1.00	0.00	C
ATOM	899	O	PHE A	66159.440	6.118	-3.001	1.00	0.00	O
ATOM	900	CB	PHE A	66156.869	5.014	-2.261	1.00	0.00	C
ATOM	901	CG	PHE A	66156.256	4.705	-3.597	1.00	0.00	C
ATOM	902	CD1	PHE A	66156.160	3.397	-4.044	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.777	5.724	-4.405	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.596	3.110	-5.272	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.213	5.442	-5.635	1.00	0.00	C

ATOM	906	CZ	PHE A	66155.122	4.134	-6.070	1.00	0.00	C
ATOM	907	H	PHE A	66158.659	5.301	-0.211	1.00	0.00	H
ATOM	908	HA	PHE A	66158.092	3.257	-2.257	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.168	4.711	-1.497	1.00	0.00	H
ATOM	910	2HB	PHE A	66157.021	6.081	-2.202	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.529	2.596	-3.421	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.847	6.746	-4.067	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.527	2.086	-5.609	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.844	6.244	-6.257	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.682	3.912	-7.030	1.00	0.00	H
ATOM	916	N	ARG A	67160.003	4.031	-3.626	1.00	0.00	N
ATOM	917	CA	ARG A	67161.060	4.468	-4.531	1.00	0.00	C
ATOM	918	C	ARG A	67162.112	5.285	-3.786	1.00	0.00	C
ATOM	919	O	ARG A	67162.579	6.313	-4.279	1.00	0.00	O
ATOM	920	CB	ARG A	67160.472	5.294	-5.677	1.00	0.00	C
ATOM	921	CG	ARG A	67159.402	4.559	-6.468	1.00	0.00	C
ATOM	922	CD	ARG A	67158.879	5.405	-7.619	1.00	0.00	C
ATOM	923	NE	ARG A	67159.730	5.304	-8.804	1.00	0.00	N
ATOM	924	CZ	ARG A	67160.781	6.089	-9.035	1.00	0.00	C
ATOM	925	NH1	ARG A	67161.122	7.033	-8.166	1.00	0.00	N
ATOM	926	NH2	ARG A	67161.496	5.927	-10.139	1.00	0.00	N
ATOM	927	H	ARG A	67159.826	3.073	-3.528	1.00	0.00	H
ATOM	928	HA	ARG A	67161.531	3.586	-4.941	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.033	6.194	-5.269	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.266	5.567	-6.354	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.823	3.650	-6.867	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.581	4.319	-5.808	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.886	5.066	-7.874	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.835	6.435	-7.303	1.00	0.00	H
ATOM	935	HE	ARG A	67159.505	4.616	-9.464	1.00	0.00	H
ATOM	936	1HH1	ARG A	67160.590	7.162	-7.331	1.00	0.00	H

ATOM	937	2HH1	ARG A	67161.913	7.617	-8.349	1.00	0.00	H
ATOM	938	1HH2	ARG A	67161.246	5.217	-10.797	1.00	0.00	H
ATOM	939	2HH2	ARG A	67162.286	6.515	-10.315	1.00	0.00	H
ATOM	940	N	GLY A	68162.481	4.821	-2.598	1.00	0.00	N
ATOM	941	CA	GLY A	68163.474	5.520	-1.804	1.00	0.00	C
ATOM	942	C	GLY A	68162.913	6.760	-1.135	1.00	0.00	C
ATOM	943	O	GLY A	68163.640	7.721	-0.885	1.00	0.00	O
ATOM	944	H	GLY A	68162.075	3.997	-2.255	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.847	4.851	-1.043	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.293	5.810	-2.446	1.00	0.00	H
ATOM	947	N	THR A	69161.616	6.737	-0.846	1.00	0.00	N
ATOM	948	CA	THR A	69160.956	7.867	-0.202	1.00	0.00	C
ATOM	949	C	THR A	69160.140	7.406	1.001	1.00	0.00	C
ATOM	950	O	THR A	69158.983	7.009	0.864	1.00	0.00	O
ATOM	951	CB	THR A	69160.050	8.591	-1.201	1.00	0.00	C
ATOM	952	OG1	THR A	69160.750	8.872	-2.399	1.00	0.00	O
ATOM	953	CG2	THR A	69159.500	9.897	-0.671	1.00	0.00	C
ATOM	954	H	THR A	69161.090	5.941	-1.071	1.00	0.00	H
ATOM	955	HA	THR A	69161.721	8.549	0.136	1.00	0.00	H
ATOM	956	HB	THR A	69159.212	7.951	-1.439	1.00	0.00	H
ATOM	957	HG1	THR A	69160.631	8.148	-3.018	1.00	0.00	H
ATOM	958	1HG2	THR A	69158.639	9.701	-0.050	1.00	0.00	H
ATOM	959	2HG2	THR A	69159.211	10.528	-1.499	1.00	0.00	H
ATOM	960	3HG2	THR A	69160.260	10.396	-0.087	1.00	0.00	H
ATOM	961	N	ARG A	70160.751	7.462	2.180	1.00	0.00	N
ATOM	962	CA	ARG A	70160.082	7.049	3.408	1.00	0.00	C
ATOM	963	C	ARG A	70158.900	7.963	3.718	1.00	0.00	C
ATOM	964	O	ARG A	70159.052	9.181	3.807	1.00	0.00	O
ATOM	965	CB	ARG A	70161.067	7.056	4.578	1.00	0.00	C
ATOM	966	CG	ARG A	70160.519	6.409	5.839	1.00	0.00	C
ATOM	967	CD	ARG A	70161.329	6.799	7.064	1.00	0.00	C

ATOM	968	NE	ARG A	70162.742	6.459	6.918	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.611	6.450	7.926	1.00	0.00	C
ATOM	970	NH1	ARG A	70163.216	6.760	9.154	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.877	6.127	7.706	1.00	0.00	N
ATOM	972	H	ARG A	70161.674	7.788	2.225	1.00	0.00	H
ATOM	973	HA	ARG A	70159.715	6.044	3.264	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.960	6.524	4.285	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.327	8.080	4.809	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.496	6.727	5.980	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.552	5.336	5.724	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.239	7.865	7.214	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.930	6.281	7.924	1.00	0.00	H
ATOM	980	HE	ARG A	70163.060	6.225	6.021	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.262	7.004	9.328	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.874	6.751	9.908	1.00	0.00	H
ATOM	983	1HH2	ARG A	70165.181	5.892	6.782	1.00	0.00	H
ATOM	984	2HH2	ARG A	70165.532	6.120	8.463	1.00	0.00	H
ATOM	985	N	TYR A	71157.724	7.366	3.883	1.00	0.00	N
ATOM	986	CA	TYR A	71156.516	8.124	4.185	1.00	0.00	C
ATOM	987	C	TYR A	71156.011	7.805	5.588	1.00	0.00	C
ATOM	988	O	TYR A	71155.523	8.684	6.298	1.00	0.00	O
ATOM	989	CB	TYR A	71155.426	7.819	3.156	1.00	0.00	C
ATOM	990	CG	TYR A	71155.667	8.463	1.809	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.569	7.724	0.637	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.992	9.810	1.710	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.787	8.309	-0.596	1.00	0.00	C
ATOM	994	CE2	TYR A	71156.212	10.402	0.481	1.00	0.00	C
ATOM	995	CZ	TYR A	71156.109	9.648	-0.669	1.00	0.00	C
ATOM	996	OH	TYR A	71156.328	10.234	-1.894	1.00	0.00	O
ATOM	997	H	TYR A	71157.668	6.390	3.801	1.00	0.00	H
ATOM	998	HA	TYR A	71156.762	9.174	4.134	1.00	0.00	H

ATOM	999	1HB	TYR A	71155.371	6.751	3.007	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.479	8.174	3.530	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.318	6.675	0.696	1.00	0.00	H
ATOM	1002	HD2	TYR A	71156.073	10.399	2.612	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.707	7.718	-1.496	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.464	11.451	0.424	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.544	10.138	-2.440	1.00	0.00	H
ATOM	1006	N	PHE A	72156.134	6.541	5.981	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.691	6.104	7.299	1.00	0.00	C
ATOM	1008	C	PHE A	72156.581	4.984	7.826	1.00	0.00	C
ATOM	1009	O	PHE A	72157.396	4.427	7.090	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.237	5.631	7.242	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.990	4.570	6.207	1.00	0.00	C
ATOM	1012	CD1	PHE A	72154.023	3.228	6.551	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.726	4.916	4.891	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.796	2.250	5.600	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.499	3.942	3.937	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.533	2.608	4.292	1.00	0.00	C
ATOM	1017	H	PHE A	72156.532	5.887	5.369	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.759	6.948	7.969	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.959	5.226	8.204	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.600	6.474	7.014	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.227	2.947	7.573	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.698	5.959	4.613	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.824	1.207	5.880	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.294	4.225	2.915	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.355	1.846	3.548	1.00	0.00	H
ATOM	1026	N	THR A	73156.421	4.658	9.104	1.00	0.00	N
ATOM	1027	CA	THR A	73157.213	3.604	9.729	1.00	0.00	C
ATOM	1028	C	THR A	73156.352	2.379	10.019	1.00	0.00	C
ATOM	1029	O	THR A	73155.488	2.407	10.896	1.00	0.00	O



ATOM	1030	CB	THR A	73157.849	4.113	11.023	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.357	5.424	10.851	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.984	3.242	11.515	1.00	0.00	C
ATOM	1033	H	THR A	73155.757	5.138	9.641	1.00	0.00	H
ATOM	1034	HA	THR A	73157.995	3.324	9.040	1.00	0.00	H
ATOM	1035	HB	THR A	73157.094	4.141	11.797	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.929	5.447	10.079	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.652	3.023	10.695	1.00	0.00	H
ATOM	1038	2HG2	THR A	73158.584	2.319	11.909	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.526	3.760	12.292	1.00	0.00	H
ATOM	1040	N	CYS A	74156.595	1.303	9.277	1.00	0.00	N
ATOM	1041	CA	CYS A	74155.842	0.066	9.456	1.00	0.00	C
ATOM	1042	C	CYS A	74156.782	-1.131	9.560	1.00	0.00	C
ATOM	1043	O	CYS A	74158.003	-0.976	9.551	1.00	0.00	O
ATOM	1044	CB	CYS A	74154.870	-0.135	8.292	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.244	0.612	8.553	1.00	0.00	S
ATOM	1046	H	CYS A	74157.296	1.341	8.594	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.281	0.149	10.373	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.292	0.302	7.400	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.725	-1.194	8.134	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.305	1.198	9.311	1.00	0.00	H
ATOM	1051	N	ALAA	75156.205	-2.324	9.660	1.00	0.00	N
ATOM	1052	CA	ALAA	75156.991	-3.546	9.768	1.00	0.00	C
ATOM	1053	C	ALAA	75157.870	-3.743	8.538	1.00	0.00	C
ATOM	1054	O	ALAA	75157.664	-3.105	7.506	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.076	-4.746	9.962	1.00	0.00	C
ATOM	1056	H	ALAA	75155.227	-2.382	9.663	1.00	0.00	H
ATOM	1057	HA	ALAA	75157.623	-3.461	10.641	1.00	0.00	H
ATOM	1058	1HB	ALAA	75156.517	-5.615	9.495	1.00	0.00	H
ATOM	1059	2HB	ALAA	75155.116	-4.544	9.511	1.00	0.00	H
ATOM	1060	3HB	ALAA	75155.945	-4.933	11.018	1.00	0.00	H

ATOM	1061	N	LEU A	76158.852	-4.630	8.655	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.764	-4.911	7.552	1.00	0.00	C
ATOM	1063	C	LEU A	76159.147	-5.906	6.577	1.00	0.00	C
ATOM	1064	O	LEU A	76158.533	-6.893	6.985	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.090	-5.456	8.085	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.125	-4.392	8.458	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.974	-4.861	9.630	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.002	-4.060	7.261	1.00	0.00	C
ATOM	1069	H	LEU A	76158.967	-5.108	9.503	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.950	-3.983	7.031	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.884	-6.052	8.962	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.523	-6.096	7.330	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.611	-3.490	8.758	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.628	-5.656	9.304	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.331	-5.223	10.418	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.566	-4.036	9.997	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.237	-3.007	7.267	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.476	-4.307	6.350	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.916	-4.633	7.314	1.00	0.00	H
ATOM	1080	N	LYS A	77159.313	-5.643	5.285	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.772	-6.517	4.250	1.00	0.00	C
ATOM	1082	C	LYS A	77157.252	-6.603	4.351	1.00	0.00	C
ATOM	1083	O	LYS A	77156.665	-7.666	4.149	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.383	-7.915	4.364	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.885	-7.943	4.138	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.226	-7.877	2.657	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.671	-7.456	2.437	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.874	-6.860	1.088	1.00	0.00	N
ATOM	1089	H	LYS A	77159.811	-4.842	5.021	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.034	-6.097	3.291	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.182	-8.303	5.352	1.00	0.00	H

ATOM	1092	2HB	LYS A	77158.918	-8.559	3.632	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.331	-7.096	4.637	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.285	-8.858	4.550	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.075	-8.852	2.220	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.574	-7.160	2.180	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.937	-6.726	3.187	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.304	-8.324	2.538	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.161	-7.597	0.412	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.618	-6.134	1.127	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77161.993	-6.420	0.753	1.00	0.00	H
ATOM	1102	N	LYS A	78156.621	-5.477	4.666	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.169	-5.426	4.795	1.00	0.00	C
ATOM	1104	C	LYS A	78154.633	-4.057	4.383	1.00	0.00	C
ATOM	1105	O	LYS A	78153.726	-3.518	5.017	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.754	-5.738	6.234	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.238	-7.092	6.726	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.904	-7.305	8.194	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.702	-8.221	8.365	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.966	-7.941	9.629	1.00	0.00	N
ATOM	1111	H	LYS A	78157.143	-4.661	4.816	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.751	-6.174	4.138	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.155	-4.977	6.886	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.675	-5.722	6.296	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.764	-7.868	6.143	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.309	-7.148	6.598	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.755	-7.749	8.687	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.683	-6.349	8.645	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.033	-8.077	7.530	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.047	-9.245	8.378	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78151.944	-8.061	9.480	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.148	-6.966	9.941	1.00	0.00	H

ATOM 1123 3HZ LYS A 78153.277 -8.595 10.376 1.00 0.00 H  
 ATOM 1124 N ALAA 79155.201 -3.502 3.317 1.00 0.00 N  
 ATOM 1125 CA ALAA 79154.780 -2.198 2.821 1.00 0.00 C  
 ATOM 1126 C ALAA 79154.611 -2.214 1.306 1.00 0.00 C  
 ATOM 1127 O ALAA 79155.588 -2.325 0.564 1.00 0.00 O  
 ATOM 1128 CB ALAA 79155.783 -1.130 3.231 1.00 0.00 C  
 ATOM 1129 H ALAA 79155.919 -3.981 2.854 1.00 0.00 H  
 ATOM 1130 HA ALAA 79153.829 -1.959 3.277 1.00 0.00 H  
 ATOM 1131 1HB ALAA 79155.800 -1.045 4.308 1.00 0.00 H  
 ATOM 1132 2HB ALAA 79155.496 -0.181 2.800 1.00 0.00 H  
 ATOM 1133 3HB ALAA 79156.766 -1.404 2.877 1.00 0.00 H  
 ATOM 1134 N LEU A 80153.367 -2.104 0.853 1.00 0.00 N  
 ATOM 1135 CA LEU A 80153.069 -2.107 -0.575 1.00 0.00 C  
 ATOM 1136 C LEU A 80152.263 -0.873 -0.964 1.00 0.00 C  
 ATOM 1137 O LEU A 80151.180 -0.634 -0.430 1.00 0.00 O  
 ATOM 1138 CB LEU A 80152.301 -3.375 -0.954 1.00 0.00 C  
 ATOM 1139 CG LEU A 80151.870 -3.458 -2.419 1.00 0.00 C  
 ATOM 1140 CD1 LEU A 80153.080 -3.657 -3.320 1.00 0.00 C  
 ATOM 1141 CD2 LEU A 80150.867 -4.584 -2.615 1.00 0.00 C  
 ATOM 1142 H LEU A 80152.631 -2.020 1.493 1.00 0.00 H  
 ATOM 1143 HA LEU A 80154.008 -2.092 -1.110 1.00 0.00 H  
 ATOM 1144 1HB LEU A 80152.927 -4.228 -0.734 1.00 0.00 H  
 ATOM 1145 2HB LEU A 80151.416 -3.432 -0.339 1.00 0.00 H  
 ATOM 1146 HG LEU A 80151.393 -2.531 -2.701 1.00 0.00 H  
 ATOM 1147 1HD1 LEU A 80153.819 -4.251 -2.805 1.00 0.00 H  
 ATOM 1148 2HD1 LEU A 80153.502 -2.695 -3.573 1.00 0.00 H  
 ATOM 1149 3HD1 LEU A 80152.775 -4.164 -4.224 1.00 0.00 H  
 ATOM 1150 1HD2 LEU A 80150.987 -5.007 -3.602 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80149.865 -4.195 -2.510 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80151.036 -5.351 -1.873 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.797 -0.093 -1.898 1.00 0.00 N

ATOM	1154	CA	PHE A	81152.126	1.117	-2.359	1.00	0.00	C
ATOM	1155	C	PHE A	81151.269	0.830	-3.589	1.00	0.00	C
ATOM	1156	O	PHE A	81151.629	0.006	-4.429	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.153	2.204	-2.682	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.880	2.720	-1.472	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.473	3.888	-0.849	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.971	2.035	-0.960	1.00	0.00	C
ATOM	1161	CE1	PHE A	81154.140	4.365	0.264	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.642	2.508	0.152	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.226	3.673	0.764	1.00	0.00	C
ATOM	1164	H	PHE A	81153.662	-0.337	-2.287	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.485	1.465	-1.562	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.887	1.805	-3.365	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.649	3.038	-3.148	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.624	4.429	-1.239	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.296	1.124	-1.438	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.814	5.277	0.740	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.491	1.965	0.542	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.749	4.044	1.634	1.00	0.00	H
ATOM	1173	N	VAL A	82150.136	1.517	-3.687	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.229	1.335	-4.815	1.00	0.00	C
ATOM	1175	C	VAL A	82148.350	2.565	-5.016	1.00	0.00	C
ATOM	1176	O	VAL A	82148.273	3.435	-4.148	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.328	0.102	-4.618	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.141	-1.178	-4.733	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.615	0.170	-3.276	1.00	0.00	C
ATOM	1180	H	VAL A	82149.904	2.160	-2.986	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.826	1.182	-5.701	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.581	0.099	-5.398	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.833	-1.241	-3.907	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.689	-1.174	-5.664	1.00	0.00	H

ATOM 1185 3HG1 VAL A 82148.477 -2.029 -4.712 1.00 0.00 H  
 ATOM 1186 1HG2 VAL A 82147.228 1.168 -3.124 1.00 0.00 H  
 ATOM 1187 2HG2 VAL A 82148.311 -0.070 -2.486 1.00 0.00 H  
 ATOM 1188 3HG2 VAL A 82146.800 -0.537 -3.265 1.00 0.00 H  
 ATOM 1189 N LYS A 83147.689 2.631 -6.167 1.00 0.00 N  
 ATOM 1190 CA LYS A 83146.816 3.755 -6.484 1.00 0.00 C  
 ATOM 1191 C LYS A 83145.586 3.760 -5.582 1.00 0.00 C  
 ATOM 1192 O LYS A 83144.833 2.788 -5.534 1.00 0.00 O  
 ATOM 1193 CB LYS A 83146.387 3.697 -7.951 1.00 0.00 C  
 ATOM 1194 CG LYS A 83147.548 3.777 -8.928 1.00 0.00 C  
 ATOM 1195 CD LYS A 83147.109 3.447 -10.345 1.00 0.00 C  
 ATOM 1196 CE LYS A 83147.812 4.326 -11.366 1.00 0.00 C  
 ATOM 1197 NZ LYS A 83148.149 3.576 -12.607 1.00 0.00 N  
 ATOM 1198 H LYS A 83147.792 1.907 -6.819 1.00 0.00 H  
 ATOM 1199 HA LYS A 83147.371 4.665 -6.316 1.00 0.00 H  
 ATOM 1200 1HB LYS A 83145.862 2.768 -8.125 1.00 0.00 H  
 ATOM 1201 2HB LYS A 83145.717 4.521 -8.152 1.00 0.00 H  
 ATOM 1202 1HG LYS A 83147.951 4.779 -8.912 1.00 0.00 H  
 ATOM 1203 2HG LYS A 83148.311 3.076 -8.624 1.00 0.00 H  
 ATOM 1204 1HD LYS A 83147.343 2.414 -10.553 1.00 0.00 H  
 ATOM 1205 2HD LYS A 83146.042 3.600 -10.425 1.00 0.00 H  
 ATOM 1206 1HE LYS A 83147.164 5.151 -11.620 1.00 0.00 H  
 ATOM 1207 2HE LYS A 83148.723 4.708 -10.927 1.00 0.00 H  
 ATOM 1208 1HZ LYS A 83148.769 4.150 -13.214 1.00 0.00 H  
 ATOM 1209 2HZ LYS A 83147.281 3.349 -13.134 1.00 0.00 H  
 ATOM 1210 3HZ LYS A 83148.638 2.690 -12.368 1.00 0.00 H  
 ATOM 1211 N LEU A 84145.391 4.864 -4.868 1.00 0.00 N  
 ATOM 1212 CA LEU A 84144.255 5.003 -3.966 1.00 0.00 C  
 ATOM 1213 C LEU A 84142.937 4.838 -4.717 1.00 0.00 C  
 ATOM 1214 O LEU A 84141.972 4.290 -4.184 1.00 0.00 O  
 ATOM 1215 CB LEU A 84144.298 6.366 -3.273 1.00 0.00 C

ATOM	1216	CG	LEU A	84143.095	6.680	-2.379	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.181	5.900	-1.078	1.00	0.00	C
ATOM	1218	CD2	LEU A	84143.014	8.174	-2.104	1.00	0.00	C
ATOM	1219	H	LEU A	84146.029	5.603	-4.951	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.328	4.227	-3.218	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.191	6.411	-2.668	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.361	7.129	-4.034	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.190	6.382	-2.888	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.206	5.865	-0.613	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.879	6.386	-0.412	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.518	4.894	-1.282	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.869	8.704	-3.034	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.931	8.505	-1.639	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.183	8.373	-1.443	1.00	0.00	H
ATOM	1230	N	LYS A	85142.905	5.316	-5.956	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.705	5.221	-6.780	1.00	0.00	C
ATOM	1232	C	LYS A	85141.354	3.764	-7.067	1.00	0.00	C
ATOM	1233	O	LYS A	85140.195	3.432	-7.310	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.902	5.980	-8.094	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.103	5.507	-8.896	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.831	6.670	-9.549	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.950	6.188	-10.458	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.785	7.315	-10.956	1.00	0.00	N
ATOM	1239	H	LYS A	85143.706	5.743	-6.326	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.892	5.673	-6.232	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.017	5.856	-8.702	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.032	7.029	-7.874	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.785	4.993	-8.236	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.764	4.828	-9.666	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.127	7.241	-10.135	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.251	7.298	-8.777	1.00	0.00	H

ATOM	1247	1HE	LYS A	85145.576	5.504	-9.904	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.514	5.674	-11.301	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.781	7.021	-11.021	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.717	8.125	-10.308	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.460	7.611	-11.898	1.00	0.00	H
ATOM	1252	N	SER A	86142.364	2.898	-7.038	1.00	0.00	N
ATOM	1253	CA	SER A	86142.159	1.478	-7.294	1.00	0.00	C
ATOM	1254	C	SER A	86142.129	0.688	-5.991	1.00	0.00	C
ATOM	1255	O	SER A	86142.573	-0.459	-5.938	1.00	0.00	O
ATOM	1256	CB	SER A	86143.263	0.939	-8.207	1.00	0.00	C
ATOM	1257	OG	SER A	86143.111	1.420	-9.531	1.00	0.00	O
ATOM	1258	H	SER A	86143.268	3.222	-6.838	1.00	0.00	H
ATOM	1259	HA	SER A	86141.206	1.365	-7.791	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.224	1.255	-7.830	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.218	-0.140	-8.222	1.00	0.00	H
ATOM	1262	HG	SER A	86142.913	2.359	-9.509	1.00	0.00	H
ATOM	1263	N	CYS A	87141.602	1.309	-4.940	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.513	0.663	-3.636	1.00	0.00	C
ATOM	1265	C	CYS A	87140.058	0.429	-3.243	1.00	0.00	C
ATOM	1266	O	CYS A	87139.167	1.173	-3.652	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.209	1.517	-2.573	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.014	1.478	-2.662	1.00	0.00	S
ATOM	1269	H	CYS A	87141.265	2.222	-5.046	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.014	-0.290	-3.702	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.897	2.545	-2.687	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.920	1.165	-1.594	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.348	2.278	-2.249	1.00	0.00	H
ATOM	1274	N	ARG A	88139.824	-0.611	-2.450	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.477	-0.944	-2.004	1.00	0.00	C
ATOM	1276	C	ARG A	88138.411	-1.018	-0.478	1.00	0.00	C
ATOM	1277	O	ARG A	88139.235	-1.682	0.152	1.00	0.00	O



ATOM	1278	CB	ARG A	88138.032	-2.277	-2.610	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.252	-2.125	-3.905	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.768	-1.931	-3.642	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.945	-2.463	-4.726	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.850	-1.900	-5.928	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.523	-0.790	-6.205	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.079	-2.449	-6.857	1.00	0.00	N
ATOM	1285	H	ARG A	88140.576	-1.169	-2.158	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.814	-0.165	-2.346	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.907	-2.877	-2.809	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.407	-2.794	-1.896	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.628	-1.268	-4.442	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.390	-3.015	-4.503	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.508	-2.439	-2.724	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.570	-0.875	-3.536	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.438	-3.282	-4.549	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.106	-0.371	-5.509	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.447	-0.372	-7.110	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.570	-3.286	-6.655	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.007	-2.026	-7.761	1.00	0.00	H
ATOM	1298	N	PRO A	89137.428	-0.338	0.142	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.268	-0.339	1.600	1.00	0.00	C
ATOM	1300	C	PRO A	89137.186	-1.750	2.172	1.00	0.00	C
ATOM	1301	O	PRO A	89136.385	-2.567	1.720	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.947	0.404	1.818	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.784	1.254	0.607	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.397	0.481	-0.526	1.00	0.00	C
ATOM	1305	HA	PRO A	89138.071	0.198	2.085	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.142	-0.311	1.912	1.00	0.00	H
ATOM	1307	2HB	PRO A	89136.011	1.003	2.714	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.733	1.426	0.418	1.00	0.00	H

ATOM	1309	2HG	PRO A	89136.300	2.192	0.744	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.657	-0.144	-1.003	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.845	1.153	-1.242	1.00	0.00	H
ATOM	1312	N	ASP A	90138.017	-2.028	3.171	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.036	-3.340	3.807	1.00	0.00	C
ATOM	1314	C	ASP A	90137.323	-3.300	5.154	1.00	0.00	C
ATOM	1315	O	ASP A	90137.873	-2.820	6.145	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.477	-3.819	3.993	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.595	-5.329	3.941	1.00	0.00	C
ATOM	1318	OD1	ASP A	90138.798	-5.963	3.219	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.484	-5.879	4.626	1.00	0.00	O
ATOM	1320	H	ASP A	90138.632	-1.333	3.488	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.517	-4.029	3.158	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.092	-3.402	3.209	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.842	-3.479	4.951	1.00	0.00	H
ATOM	1324	N	SER A	91136.093	-3.806	5.183	1.00	0.00	N
ATOM	1325	CA	SER A	91135.304	-3.827	6.409	1.00	0.00	C
ATOM	1326	C	SER A	91135.387	-5.191	7.088	1.00	0.00	C
ATOM	1327	O	SER A	91134.473	-5.595	7.806	1.00	0.00	O
ATOM	1328	CB	SER A	91133.844	-3.489	6.104	1.00	0.00	C
ATOM	1329	OG	SER A	91133.229	-2.842	7.204	1.00	0.00	O
ATOM	1330	H	SER A	91135.708	-4.173	4.359	1.00	0.00	H
ATOM	1331	HA	SER A	91135.706	-3.080	7.076	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.799	-2.835	5.247	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.305	-4.400	5.891	1.00	0.00	H
ATOM	1334	HG	SER A	91132.507	-3.385	7.531	1.00	0.00	H
ATOM	1335	N	ARG A	92136.490	-5.898	6.857	1.00	0.00	N
ATOM	1336	CA	ARG A	92136.689	-7.217	7.447	1.00	0.00	C
ATOM	1337	C	ARG A	92136.792	-7.125	8.966	1.00	0.00	C
ATOM	1338	O	ARG A	92136.442	-8.066	9.679	1.00	0.00	O
ATOM	1339	CB	ARG A	92137.950	-7.867	6.877	1.00	0.00	C

ATOM	1340	CG	ARG A	92137.698	-8.693	5.627	1.00	0.00	C
ATOM	1341	CD	ARG A	92138.690	-9.839	5.507	1.00	0.00	C
ATOM	1342	NE	ARG A	92138.461	-10.869	6.518	1.00	0.00	N
ATOM	1343	CZ	ARG A	92139.262	-11.916	6.704	1.00	0.00	C
ATOM	1344	NH1	ARG A	92140.342	-12.076	5.949	1.00	0.00	N
ATOM	1345	NH2	ARG A	92138.981	-12.806	7.646	1.00	0.00	N
ATOM	1346	H	ARG A	92137.184	-5.525	6.276	1.00	0.00	H
ATOM	1347	HA	ARG A	92135.835	-7.826	7.192	1.00	0.00	H
ATOM	1348	1HB	ARG A	92138.663	-7.092	6.633	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.380	-8.514	7.629	1.00	0.00	H
ATOM	1350	1HG	ARG A	92136.699	-9.099	5.671	1.00	0.00	H
ATOM	1351	2HG	ARG A	92137.792	-8.055	4.760	1.00	0.00	H
ATOM	1352	1HD	ARG A	92138.591	-10.282	4.527	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.690	-9.447	5.625	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.670	-10.775	7.088	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92140.560	-11.409	5.237	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.940	-12.865	6.094	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92138.168	-12.689	8.216	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92139.582	-13.593	7.785	1.00	0.00	H
ATOM	1359	N	PHE A	93137.276	-5.988	9.456	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.426	-5.779	10.891	1.00	0.00	C
ATOM	1361	C	PHE A	93136.416	-4.758	11.407	1.00	0.00	C
ATOM	1362	O	PHE A	93136.659	-4.082	12.407	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.848	-5.313	11.213	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.903	-6.319	10.855	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.687	-6.900	11.839	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.111	-6.686	9.535	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.659	-7.827	11.512	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.081	-7.612	9.203	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.857	-8.183	10.192	1.00	0.00	C
ATOM	1370	H	PHE A	93137.539	-5.275	8.839	1.00	0.00	H

ATOM 1371 HA PHE A 93137.248 -6.723 11.384 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93139.054 -4.406 10.665 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93138.922 -5.113 12.271 1.00 0.00 H  
 ATOM 1374 HD1 PHE A 93140.533 -6.623 12.871 1.00 0.00 H  
 ATOM 1375 HD2 PHE A 93139.506 -6.239 8.760 1.00 0.00 H  
 ATOM 1376 HE1 PHE A 93142.264 -8.272 12.289 1.00 0.00 H  
 ATOM 1377 HE2 PHE A 93141.234 -7.888 8.170 1.00 0.00 H  
 ATOM 1378 HZ PHE A 93142.615 -8.907 9.935 1.00 0.00 H  
 ATOM 1379 N ALA A 94135.281 -4.649 10.721 1.00 0.00 N  
 ATOM 1380 CA ALA A 94134.240 -3.710 11.117 1.00 0.00 C  
 ATOM 1381 C ALA A 94133.215 -4.378 12.028 1.00 0.00 C  
 ATOM 1382 O ALA A 94132.649 -5.416 11.684 1.00 0.00 O  
 ATOM 1383 CB ALA A 94133.557 -3.130 9.890 1.00 0.00 C  
 ATOM 1384 H ALA A 94135.142 -5.214 9.932 1.00 0.00 H  
 ATOM 1385 HA ALA A 94134.709 -2.900 11.656 1.00 0.00 H  
 ATOM 1386 1HB ALA A 94132.958 -2.278 10.178 1.00 0.00 H  
 ATOM 1387 2HB ALA A 94132.922 -3.880 9.442 1.00 0.00 H  
 ATOM 1388 3HB ALA A 94134.305 -2.818 9.175 1.00 0.00 H  
 ATOM 1389 N SER A 95132.983 -3.778 13.190 1.00 0.00 N  
 ATOM 1390 CA SER A 95132.026 -4.315 14.151 1.00 0.00 C  
 ATOM 1391 C SER A 95130.594 -4.075 13.684 1.00 0.00 C  
 ATOM 1392 O SER A 95130.199 -2.939 13.422 1.00 0.00 O  
 ATOM 1393 CB SER A 95132.240 -3.679 15.525 1.00 0.00 C  
 ATOM 1394 OG SER A 95132.391 -2.274 15.421 1.00 0.00 O  
 ATOM 1395 H SER A 95133.467 -2.953 13.408 1.00 0.00 H  
 ATOM 1396 HA SER A 95132.194 -5.379 14.226 1.00 0.00 H  
 ATOM 1397 1HB SER A 95131.389 -3.892 16.154 1.00 0.00 H  
 ATOM 1398 2HB SER A 95133.132 -4.092 15.976 1.00 0.00 H  
 ATOM 1399 HG SER A 95133.214 -2.008 15.838 1.00 0.00 H  
 ATOM 1400 N LEU A 96129.822 -5.152 13.584 1.00 0.00 N  
 ATOM 1401 CA LEU A 96128.433 -5.058 13.149 1.00 0.00 C

ATOM 1402 C LEU A 96127.642 -6.286 13.591 1.00 0.00 C  
 ATOM 1403 O LEU A 96127.548 -7.272 12.860 1.00 0.00 O  
 ATOM 1404 CB LEU A 96128.364 -4.909 11.627 1.00 0.00 C  
 ATOM 1405 CG LEU A 96128.144 -3.480 11.127 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96128.600 -3.344 9.683 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96126.680 -3.088 11.266 1.00 0.00 C  
 ATOM 1408 H LEU A 96130.195 -6.030 13.808 1.00 0.00 H  
 ATOM 1409 HA LEU A 96128.000 -4.182 13.608 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96129.290 -5.276 11.208 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96127.554 -5.522 11.261 1.00 0.00 H  
 ATOM 1412 HG LEU A 96128.732 -2.801 11.728 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96127.967 -2.634 9.171 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96128.535 -4.304 9.193 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96129.623 -2.997 9.659 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96126.133 -3.428 10.398 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96126.601 -2.014 11.342 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96126.268 -3.543 12.153 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.077 -6.219 14.792 1.00 0.00 N  
 ATOM 1420 CA GLN A 97126.295 -7.326 15.332 1.00 0.00 C  
 ATOM 1421 C GLN A 97127.147 -8.589 15.445 1.00 0.00 C  
 ATOM 1422 O GLN A 97127.340 -9.305 14.462 1.00 0.00 O  
 ATOM 1423 CB GLN A 97125.079 -7.596 14.446 1.00 0.00 C  
 ATOM 1424 CG GLN A 97123.875 -6.732 14.784 1.00 0.00 C  
 ATOM 1425 CD GLN A 97123.033 -7.317 15.901 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97122.773 -8.519 15.934 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97122.601 -6.466 16.825 1.00 0.00 N  
 ATOM 1428 H GLN A 97127.189 -5.406 15.328 1.00 0.00 H  
 ATOM 1429 HA GLN A 97125.956 -7.041 16.316 1.00 0.00 H  
 ATOM 1430 1HB GLN A 97125.349 -7.413 13.417 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97124.793 -8.632 14.556 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97124.222 -5.756 15.090 1.00 0.00 H

ATOM 1433 2HG GLN A 97123.259 -6.634 13.902 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97122.847 -5.522 16.736 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97122.055 -6.817 17.559 1.00 0.00 H  
 ATOM 1436 N PRO A 98127.670 -8.881 16.649 1.00 0.00 N  
 ATOM 1437 CA PRO A 98128.502 -10.065 16.879 1.00 0.00 C  
 ATOM 1438 C PRO A 98127.689 -11.355 16.877 1.00 0.00 C  
 ATOM 1439 O PRO A 98126.521 -11.363 16.487 1.00 0.00 O  
 ATOM 1440 CB PRO A 98129.100 -9.812 18.264 1.00 0.00 C  
 ATOM 1441 CG PRO A 98128.106 -8.940 18.950 1.00 0.00 C  
 ATOM 1442 CD PRO A 98127.492 -8.082 17.877 1.00 0.00 C  
 ATOM 1443 HA PRO A 98129.295 -10.139 16.150 1.00 0.00 H  
 ATOM 1444 1HB PRO A 98129.226 -10.752 18.782 1.00 0.00 H  
 ATOM 1445 2HB PRO A 98130.054 -9.317 18.163 1.00 0.00 H  
 ATOM 1446 1HG PRO A 98127.348 -9.550 19.422 1.00 0.00 H  
 ATOM 1447 2HG PRO A 98128.602 -8.324 19.684 1.00 0.00 H  
 ATOM 1448 1HD PRO A 98126.444 -7.917 18.080 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98128.015 -7.141 17.802 1.00 0.00 H  
 ATOM 1450 N SER A 99128.314 -12.443 17.314 1.00 0.00 N  
 ATOM 1451 CA SER A 99127.648 -13.740 17.362 1.00 0.00 C  
 ATOM 1452 C SER A 99127.209 -14.177 15.967 1.00 0.00 C  
 ATOM 1453 O SER A 99127.178 -13.374 15.036 1.00 0.00 O  
 ATOM 1454 CB SER A 99126.436 -13.680 18.295 1.00 0.00 C  
 ATOM 1455 OG SER A 99126.578 -12.641 19.248 1.00 0.00 O  
 ATOM 1456 H SER A 99129.245 -12.373 17.611 1.00 0.00 H  
 ATOM 1457 HA SER A 99128.353 -14.460 17.748 1.00 0.00 H  
 ATOM 1458 1HB SER A 99125.545 -13.498 17.713 1.00 0.00 H  
 ATOM 1459 2HB SER A 99126.340 -14.621 18.816 1.00 0.00 H  
 ATOM 1460 HG SER A 99125.842 -12.669 19.864 1.00 0.00 H  
 ATOM 1461 N GLY A 100126.873 -15.456 15.833 1.00 0.00 N  
 ATOM 1462 CA GLY A 100126.441 -15.979 14.550 1.00 0.00 C  
 ATOM 1463 C GLY A 100124.977 -16.377 14.548 1.00 0.00 C

ATOM 1464 O GLY A 100124.227 -15.995 15.447 1.00 0.00 O  
 ATOM 1465 H GLY A 100126.918 -16.050 16.612 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100126.599 -15.224 13.794 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100127.038 -16.845 14.308 1.00 0.00 H  
 ATOM 1468 N PRO A 101124.535 -17.151 13.541 1.00 0.00 N  
 ATOM 1469 CA PRO A 101123.141 -17.595 13.438 1.00 0.00 C  
 ATOM 1470 C PRO A 101122.650 -18.261 14.719 1.00 0.00 C  
 ATOM 1471 O PRO A 101123.355 -19.073 15.319 1.00 0.00 O  
 ATOM 1472 CB PRO A 101123.172 -18.604 12.290 1.00 0.00 C  
 ATOM 1473 CG PRO A 101124.345 -18.203 11.464 1.00 0.00 C  
 ATOM 1474 CD PRO A 101125.360 -17.653 12.427 1.00 0.00 C  
 ATOM 1475 HA PRO A 101122.483 -16.776 13.186 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101123.289 -19.602 12.686 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101122.253 -18.540 11.726 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101124.744 -19.065 10.950 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101124.053 -17.444 10.753 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101126.026 -18.434 12.760 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101125.917 -16.849 11.968 1.00 0.00 H  
 ATOM 1482 N SER A 102121.436 -17.912 15.135 1.00 0.00 N  
 ATOM 1483 CA SER A 102120.850 -18.477 16.345 1.00 0.00 C  
 ATOM 1484 C SER A 102119.355 -18.713 16.166 1.00 0.00 C  
 ATOM 1485 O SER A 102118.583 -18.618 17.120 1.00 0.00 O  
 ATOM 1486 CB SER A 102121.094 -17.548 17.536 1.00 0.00 C  
 ATOM 1487 OG SER A 102122.478 -17.319 17.730 1.00 0.00 O  
 ATOM 1488 H SER A 102120.923 -17.260 14.615 1.00 0.00 H  
 ATOM 1489 HA SER A 102121.332 -19.424 16.534 1.00 0.00 H  
 ATOM 1490 1HB SER A 102120.607 -16.602 17.356 1.00 0.00 H  
 ATOM 1491 2HB SER A 102120.687 -17.999 18.429 1.00 0.00 H  
 ATOM 1492 HG SER A 102122.819 -16.784 17.010 1.00 0.00 H  
 ATOM 1493 N SER A 103118.952 -19.020 14.937 1.00 0.00 N  
 ATOM 1494 CA SER A 103117.547 -19.269 14.633 1.00 0.00 C

ATOM 1495 C SER A 103117.370 -19.680 13.175 1.00 0.00 C  
 ATOM 1496 O SER A 103117.412 -18.842 12.274 1.00 0.00 O  
 ATOM 1497 CB SER A 103116.711 -18.024 14.929 1.00 0.00 C  
 ATOM 1498 OG SER A 103116.240 -18.031 16.266 1.00 0.00 O  
 ATOM 1499 H SER A 103119.615 -19.081 14.218 1.00 0.00 H  
 ATOM 1500 HA SER A 103117.210 -20.077 15.265 1.00 0.00 H  
 ATOM 1501 1HB SER A 103117.315 -17.142 14.780 1.00 0.00 H  
 ATOM 1502 2HB SER A 103115.862 -17.995 14.261 1.00 0.00 H  
 ATOM 1503 HG SER A 103116.540 -17.238 16.715 1.00 0.00 H  
 ATOM 1504 N GLY A 104117.174 -20.975 12.949 1.00 0.00 N  
 ATOM 1505 CA GLY A 104116.995 -21.474 11.599 1.00 0.00 C  
 ATOM 1506 C GLY A 104116.072 -22.675 11.542 1.00 0.00 C  
 ATOM 1507 O GLY A 104116.483 -23.712 10.980 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104114.940 -22.579 12.059 1.00 0.00 O  
 ATOM 1509 H GLY A 104117.151 -21.597 13.706 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104116.579 -20.685 10.988 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104117.957 -21.753 11.198 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

#### Three-Dimensional Structure Coordinate Table 19

ATOM 1 N GLY A 1126.529 -1.144 18.709 1.00 0.00 N  
 ATOM 2 CA GLY A 1126.599 -1.450 20.165 1.00 0.00 C  
 ATOM 3 C GLY A 1125.953 -0.373 21.015 1.00 0.00 C  
 ATOM 4 O GLY A 1126.369 -0.136 22.148 1.00 0.00 O  
 ATOM 5 1H GLY A 1125.581 -1.364 18.343 1.00 0.00 H  
 ATOM 6 2H GLY A 1127.228 -1.712 18.191 1.00 0.00 H  
 ATOM 7 3H GLY A 1126.727 -0.136 18.545 1.00 0.00 H  
 ATOM 8 1HA GLY A 1126.097 -2.388 20.349 1.00 0.00 H  
 ATOM 9 2HA GLY A 1127.635 -1.546 20.452 1.00 0.00 H  
 ATOM 10 N SER A 2124.932 0.278 20.466 1.00 0.00 N



ATOM11	CA	SER A	2124.226	1.335	21.181	1.00	0.00	C
ATOM12	C	SER A	2125.161	2.498	21.496	1.00	0.00	C
ATOM13	O	SER A	2126.142	2.339	22.223	1.00	0.00	O
ATOM14	CB	SER A	2123.618	0.789	22.474	1.00	0.00	C
ATOM15	OG	SER A	2122.293	0.332	22.262	1.00	0.00	O
ATOM16	H	SER A	2124.647	0.042	19.559	1.00	0.00	H
ATOM17	HA	SER A	2123.431	1.692	20.542	1.00	0.00	H
ATOM18	1HB	SER A	2124.216	-0.036	22.830	1.00	0.00	H
ATOM19	2HB	SER A	2123.601	1.571	23.219	1.00	0.00	H
ATOM20	HG	SER A	2121.788	1.012	21.810	1.00	0.00	H
ATOM21	N	SER A	3124.851	3.667	20.945	1.00	0.00	N
ATOM22	CA	SER A	3125.664	4.858	21.168	1.00	0.00	C
ATOM23	C	SER A	3127.085	4.650	20.653	1.00	0.00	C
ATOM24	O	SER A	3127.935	4.096	21.352	1.00	0.00	O
ATOM25	CB	SER A	3125.695	5.208	22.657	1.00	0.00	C
ATOM26	OG	SER A	3125.726	6.612	22.849	1.00	0.00	O
ATOM27	H	SER A	3124.057	3.731	20.375	1.00	0.00	H
ATOM28	HA	SER A	3125.213	5.673	20.624	1.00	0.00	H
ATOM29	1HB	SER A	3124.812	4.812	23.136	1.00	0.00	H
ATOM30	2HB	SER A	3126.575	4.776	23.108	1.00	0.00	H
ATOM31	HG	SER A	3126.154	6.812	23.685	1.00	0.00	H
ATOM32	N	GLY A	4127.336	5.096	19.427	1.00	0.00	N
ATOM33	CA	GLY A	4128.655	4.950	18.841	1.00	0.00	C
ATOM34	C	GLY A	4128.942	6.004	17.790	1.00	0.00	C
ATOM35	O	GLY A	4128.099	6.854	17.506	1.00	0.00	O
ATOM36	H	GLY A	4126.620	5.528	18.917	1.00	0.00	H
ATOM37	1HA	GLY A	4129.396	5.026	19.622	1.00	0.00	H
ATOM38	2HA	GLY A	4128.728	3.974	18.384	1.00	0.00	H
ATOM39	N	SER A	5130.137	5.949	17.210	1.00	0.00	N
ATOM40	CA	SER A	5130.535	6.906	16.184	1.00	0.00	C
ATOM41	C	SER A	5129.867	6.585	14.851	1.00	0.00	C

ATOM42 O SER A 5129.360 7.476 14.170 1.00 0.00 O  
 ATOM43 CB SER A 5132.056 6.906 16.019 1.00 0.00 C  
 ATOM44 OG SER A 5132.669 7.794 16.936 1.00 0.00 O  
 ATOM45 H SER A 5130.767 5.247 17.479 1.00 0.00 H  
 ATOM46 HA SER A 5130.217 7.887 16.506 1.00 0.00 H  
 ATOM47 1HB SER A 5132.435 5.910 16.193 1.00 0.00 H  
 ATOM48 2HB SER A 5132.305 7.216 15.015 1.00 0.00 H  
 ATOM49 HG SER A 5133.495 8.116 16.568 1.00 0.00 H  
 ATOM50 N SER A 6129.869 5.307 14.487 1.00 0.00 N  
 ATOM51 CA SER A 6129.263 4.869 13.235 1.00 0.00 C  
 ATOM52 C SER A 6129.935 5.539 12.041 1.00 0.00 C  
 ATOM53 O SER A 6130.714 6.479 12.201 1.00 0.00 O  
 ATOM54 CB SER A 6127.764 5.181 13.233 1.00 0.00 C  
 ATOM55 OG SER A 6127.128 4.621 12.097 1.00 0.00 O  
 ATOM56 H SER A 6130.288 4.644 15.073 1.00 0.00 H  
 ATOM57 HA SER A 6129.399 3.801 13.157 1.00 0.00 H  
 ATOM58 1HB SER A 6127.312 4.770 14.122 1.00 0.00 H  
 ATOM59 2HB SER A 6127.622 6.252 13.219 1.00 0.00 H  
 ATOM60 HG SER A 6127.148 3.663 12.158 1.00 0.00 H  
 ATOM61 N GLY A 7129.628 5.049 10.844 1.00 0.00 N  
 ATOM62 CA GLY A 7130.212 5.613 9.641 1.00 0.00 C  
 ATOM63 C GLY A 7129.263 6.548 8.919 1.00 0.00 C  
 ATOM64 O GLY A 7128.048 6.481 9.110 1.00 0.00 O  
 ATOM65 H GLY A 7129.001 4.299 10.778 1.00 0.00 H  
 ATOM66 1HA GLY A 7131.104 6.159 9.909 1.00 0.00 H  
 ATOM67 2HA GLY A 7130.482 4.808 8.974 1.00 0.00 H  
 ATOM68 N LEU A 8129.818 7.424 8.087 1.00 0.00 N  
 ATOM69 CA LEU A 8129.013 8.378 7.333 1.00 0.00 C  
 ATOM70 C LEU A 8128.849 7.929 5.885 1.00 0.00 C  
 ATOM71 O LEU A 8127.830 8.202 5.252 1.00 0.00 O  
 ATOM72 CB LEU A 8129.654 9.766 7.379 1.00 0.00 C

ATOM73 CG LEU A 8129.368 10.571 8.648 1.00 0.00 C  
 ATOM74 CD1 LEU A 8130.443 11.625 8.866 1.00 0.00 C  
 ATOM75 CD2 LEU A 8127.993 11.217 8.568 1.00 0.00 C  
 ATOM76 H LEU A 8130.792 7.429 7.977 1.00 0.00 H  
 ATOM77 HA LEU A 8128.038 8.427 7.795 1.00 0.00 H  
 ATOM78 1HB LEU A 8130.725 9.648 7.286 1.00 0.00 H  
 ATOM79 2HB LEU A 8129.297 10.334 6.532 1.00 0.00 H  
 ATOM80 HG LEU A 8129.376 9.904 9.498 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8130.599 11.766 9.926 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8130.128 12.558 8.422 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8131.363 11.300 8.406 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8127.246 10.518 8.916 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8127.782 11.489 7.545 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8127.974 12.102 9.188 1.00 0.00 H  
 ATOM87 N ALAA 9129.860 7.236 5.368 1.00 0.00 N  
 ATOM88 CA ALAA 9129.829 6.747 3.994 1.00 0.00 C  
 ATOM89 C ALAA 9129.756 7.901 3.001 1.00 0.00 C  
 ATOM90 O ALAA 9128.813 8.693 3.021 1.00 0.00 O  
 ATOM91 CB ALAA 9128.652 5.803 3.796 1.00 0.00 C  
 ATOM92 H ALAA 9130.644 7.050 5.924 1.00 0.00 H  
 ATOM93 HA ALAA 9130.739 6.192 3.819 1.00 0.00 H  
 ATOM94 1HB ALAA 9128.337 5.416 4.753 1.00 0.00 H  
 ATOM95 2HB ALAA 9128.951 4.985 3.158 1.00 0.00 H  
 ATOM96 3HB ALAA 9127.834 6.339 3.337 1.00 0.00 H  
 ATOM97 N META 10130.756 7.990 2.131 1.00 0.00 N  
 ATOM98 CA META 10130.807 9.048 1.127 1.00 0.00 C  
 ATOM99 C META 10130.920 8.458 -0.277 1.00 0.00 C  
 ATOM 100 O META 10132.008 8.408 -0.852 1.00 0.00 O  
 ATOM 101 CB META 10131.989 9.981 1.398 1.00 0.00 C  
 ATOM 102 CG META 10132.125 10.382 2.858 1.00 0.00 C  
 ATOM 103 SD META 10132.698 12.078 3.062 1.00 0.00 S

ATOM	104	CE	META	10132.906	12.155	4.839	1.00	0.00	C
ATOM	105	H	META	10131.479	7.328	2.163	1.00	0.00	H
ATOM	106	HA	META	10129.890	9.613	1.194	1.00	0.00	H
ATOM	107	1HB	META	10132.900	9.486	1.096	1.00	0.00	H
ATOM	108	2HB	META	10131.864	10.880	0.811	1.00	0.00	H
ATOM	109	1HG	META	10131.161	10.283	3.336	1.00	0.00	H
ATOM	110	2HG	META	10132.831	9.718	3.335	1.00	0.00	H
ATOM	111	1HE	META	10133.016	13.184	5.146	1.00	0.00	H
ATOM	112	2HE	META	10133.787	11.598	5.123	1.00	0.00	H
ATOM	113	3HE	META	10132.039	11.726	5.321	1.00	0.00	H
ATOM	114	N	PRO A	11129.792	8.005	-0.850	1.00	0.00	N
ATOM	115	CA	PRO A	11129.771	7.417	-2.193	1.00	0.00	C
ATOM	116	C	PRO A	11130.295	8.381	-3.257	1.00	0.00	C
ATOM	117	O	PRO A	11131.120	8.003	-4.089	1.00	0.00	O
ATOM	118	CB	PRO A	11128.292	7.101	-2.440	1.00	0.00	C
ATOM	119	CG	PRO A	11127.661	7.081	-1.088	1.00	0.00	C
ATOM	120	CD	PRO A	11128.455	8.028	-0.234	1.00	0.00	C
ATOM	121	HA	PRO A	11130.346	6.504	-2.230	1.00	0.00	H
ATOM	122	1HB	PRO A	11127.858	7.865	-3.068	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.207	6.140	-2.926	1.00	0.00	H
ATOM	124	1HG	PRO A	11126.639	7.416	-1.161	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.701	6.083	-0.680	1.00	0.00	H
ATOM	126	1HD	PRO A	11128.030	9.019	-0.272	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.495	7.671	0.785	1.00	0.00	H
ATOM	128	N	PRO A	12129.828	9.644	-3.248	1.00	0.00	N
ATOM	129	CA	PRO A	12130.269	10.649	-4.221	1.00	0.00	C
ATOM	130	C	PRO A	12131.785	10.805	-4.236	1.00	0.00	C
ATOM	131	O	PRO A	12132.363	11.262	-5.222	1.00	0.00	O
ATOM	132	CB	PRO A	12129.605	11.940	-3.737	1.00	0.00	C
ATOM	133	CG	PRO A	12128.436	11.491	-2.931	1.00	0.00	C
ATOM	134	CD	PRO A	12128.847	10.194	-2.294	1.00	0.00	C

ATOM	135	HA	PRO A	12129.923	10.413	-5.217	1.00	0.00	H
ATOM	136	1HB	PRO A	12130.305	12.505	-3.138	1.00	0.00	H
ATOM	137	2HB	PRO A	12129.294	12.530	-4.586	1.00	0.00	H
ATOM	138	1HG	PRO A	12128.207	12.226	-2.173	1.00	0.00	H
ATOM	139	2HG	PRO A	12127.582	11.337	-3.576	1.00	0.00	H
ATOM	140	1HD	PRO A	12129.305	10.376	-1.332	1.00	0.00	H
ATOM	141	2HD	PRO A	12127.996	9.540	-2.191	1.00	0.00	H
ATOM	142	N	GLY A	13132.425	10.421	-3.135	1.00	0.00	N
ATOM	143	CA	GLY A	13133.869	10.526	-3.041	1.00	0.00	C
ATOM	144	C	GLY A	13134.548	9.171	-3.011	1.00	0.00	C
ATOM	145	O	GLY A	13134.346	8.390	-2.081	1.00	0.00	O
ATOM	146	H	GLY A	13131.911	10.064	-2.379	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.235	11.081	-3.893	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.121	11.064	-2.140	1.00	0.00	H
ATOM	149	N	ASNA	14135.355	8.893	-4.030	1.00	0.00	N
ATOM	150	CA	ASNA	14136.070	7.624	-4.121	1.00	0.00	C
ATOM	151	C	ASNA	14135.095	6.455	-4.250	1.00	0.00	C
ATOM	152	O	ASNA	14134.876	5.936	-5.343	1.00	0.00	O
ATOM	153	CB	ASNA	14136.968	7.426	-2.897	1.00	0.00	C
ATOM	154	CG	ASNA	14138.359	7.995	-3.103	1.00	0.00	C
ATOM	155	OD1	ASNA	14139.010	7.725	-4.111	1.00	0.00	O
ATOM	156	ND2	ASNA	14138.821	8.788	-2.142	1.00	0.00	N
ATOM	157	H	ASNA	14135.474	9.559	-4.739	1.00	0.00	H
ATOM	158	HA	ASNA	14136.689	7.657	-5.007	1.00	0.00	H
ATOM	159	1HB	ASNA	14136.521	7.919	-2.047	1.00	0.00	H
ATOM	160	2HB	ASNA	14137.057	6.370	-2.691	1.00	0.00	H
ATOM	161	1HD2	ASNA	14138.247	8.959	-1.367	1.00	0.00	H
ATOM	162	2HD2	ASNA	14139.718	9.169	-2.249	1.00	0.00	H
ATOM	163	N	SER A	15134.515	6.046	-3.127	1.00	0.00	N
ATOM	164	CA	SER A	15133.565	4.939	-3.117	1.00	0.00	C
ATOM	165	C	SER A	15132.890	4.813	-1.754	1.00	0.00	C

ATOM	166	O	SER A	15131.665	4.742	-1.661	1.00	0.00	O
ATOM	167	CB	SER A	15134.272	3.631	-3.474	1.00	0.00	C
ATOM	168	OG	SER A	15134.250	3.404	-4.872	1.00	0.00	O
ATOM	169	H	SER A	15134.729	6.499	-2.284	1.00	0.00	H
ATOM	170	HA	SER A	15132.810	5.145	-3.860	1.00	0.00	H
ATOM	171	1HB	SER A	15135.300	3.679	-3.146	1.00	0.00	H
ATOM	172	2HB	SER A	15133.775	2.810	-2.979	1.00	0.00	H
ATOM	173	HG	SER A	15133.395	3.050	-5.126	1.00	0.00	H
ATOM	174	N	HIS A	16133.700	4.782	-0.700	1.00	0.00	N
ATOM	175	CA	HIS A	16133.181	4.663	0.658	1.00	0.00	C
ATOM	176	C	HIS A	16133.957	5.561	1.616	1.00	0.00	C
ATOM	177	O	HIS A	16133.368	6.325	2.381	1.00	0.00	O
ATOM	178	CB	HIS A	16133.256	3.209	1.128	1.00	0.00	C
ATOM	179	CG	HIS A	16132.082	2.382	0.704	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.777	2.815	0.814	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.021	1.141	0.165	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.965	1.876	0.363	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.694	0.851	-0.037	1.00	0.00	N
ATOM	184	H	HIS A	16134.668	4.842	-0.839	1.00	0.00	H
ATOM	185	HA	HIS A	16132.148	4.976	0.646	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.147	2.752	0.723	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.305	3.190	2.207	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.490	3.681	1.170	1.00	0.00	H
ATOM	189	HD2	HIS A	16132.860	0.498	-0.063	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.886	1.937	0.326	1.00	0.00	H
ATOM	191	HE2	HIS A	16130.349	0.055	-0.493	1.00	0.00	H
ATOM	192	N	GLY A	17135.281	5.462	1.570	1.00	0.00	N
ATOM	193	CA	GLY A	17136.116	6.270	2.439	1.00	0.00	C
ATOM	194	C	GLY A	17137.527	5.730	2.556	1.00	0.00	C
ATOM	195	O	GLY A	17137.929	5.249	3.616	1.00	0.00	O
ATOM	196	H	GLY A	17135.695	4.835	0.940	1.00	0.00	H

ATOM	197	1HA	GLY A	17136.159	7.275	2.045	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.670	6.300	3.423	1.00	0.00	H
ATOM	199	N	LEU A	18138.281	5.808	1.465	1.00	0.00	N
ATOM	200	CA	LEU A	18139.656	5.322	1.450	1.00	0.00	C
ATOM	201	C	LEU A	18140.620	6.402	1.933	1.00	0.00	C
ATOM	202	O	LEU A	18141.030	7.271	1.163	1.00	0.00	O
ATOM	203	CB	LEU A	18140.044	4.868	0.041	1.00	0.00	C
ATOM	204	CG	LEU A	18139.195	3.731	-0.529	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.488	3.537	-2.008	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.449	2.442	0.239	1.00	0.00	C
ATOM	207	H	LEU A	18137.904	6.201	0.650	1.00	0.00	H
ATOM	208	HA	LEU A	18139.716	4.477	2.119	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.963	5.717	-0.622	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.073	4.545	0.060	1.00	0.00	H
ATOM	211	HG	LEU A	18138.150	3.983	-0.427	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.057	4.351	-2.571	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.059	2.603	-2.341	1.00	0.00	H
ATOM	214	3HD1	LEU A	18140.556	3.519	-2.165	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.540	1.857	0.270	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.758	2.678	1.246	1.00	0.00	H
ATOM	217	3HD2	LEU A	18140.225	1.876	-0.253	1.00	0.00	H
ATOM	218	N	GLU A	19140.977	6.339	3.211	1.00	0.00	N
ATOM	219	CA	GLU A	19141.893	7.311	3.797	1.00	0.00	C
ATOM	220	C	GLU A	19142.846	6.637	4.778	1.00	0.00	C
ATOM	221	O	GLU A	19142.725	5.444	5.056	1.00	0.00	O
ATOM	222	CB	GLU A	19141.110	8.417	4.507	1.00	0.00	C
ATOM	223	CG	GLU A	19140.122	7.896	5.539	1.00	0.00	C
ATOM	224	CD	GLU A	19140.471	8.328	6.951	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.621	7.444	7.820	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.593	9.548	7.186	1.00	0.00	O
ATOM	227	H	GLU A	19140.616	5.622	3.774	1.00	0.00	H

ATOM	228	HA	GLU A	19142.469	7.748	2.995	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.808	9.073	5.005	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.561	8.984	3.769	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.139	8.272	5.298	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.114	6.817	5.499	1.00	0.00	H
ATOM	233	N	VAL A	20143.793	7.409	5.300	1.00	0.00	N
ATOM	234	CA	VAL A	20144.767	6.887	6.251	1.00	0.00	C
ATOM	235	C	VAL A	20144.077	6.297	7.478	1.00	0.00	C
ATOM	236	O	VAL A	20143.175	6.909	8.049	1.00	0.00	O
ATOM	237	CB	VAL A	20145.752	7.981	6.705	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.849	7.389	7.575	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.345	8.696	5.500	1.00	0.00	C
ATOM	240	H	VAL A	20143.838	8.353	5.041	1.00	0.00	H
ATOM	241	HA	VAL A	20145.330	6.108	5.758	1.00	0.00	H
ATOM	242	HB	VAL A	20145.208	8.705	7.294	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.749	7.978	7.472	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.046	6.373	7.266	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.532	7.395	8.609	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.395	8.014	4.665	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.339	9.044	5.741	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.722	9.539	5.239	1.00	0.00	H
ATOM	249	N	GLY A	21144.509	5.104	7.877	1.00	0.00	N
ATOM	250	CA	GLY A	21143.922	4.453	9.033	1.00	0.00	C
ATOM	251	C	GLY A	21142.847	3.454	8.652	1.00	0.00	C
ATOM	252	O	GLY A	21142.616	2.479	9.367	1.00	0.00	O
ATOM	253	H	GLY A	21145.231	4.664	7.383	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.700	3.939	9.577	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.486	5.205	9.674	1.00	0.00	H
ATOM	256	N	SER A	22142.190	3.695	7.523	1.00	0.00	N
ATOM	257	CA	SER A	22141.135	2.808	7.047	1.00	0.00	C
ATOM	258	C	SER A	22141.722	1.621	6.290	1.00	0.00	C



ATOM	259	O	SER A	22142.824	1.701	5.748	1.00	0.00	O
ATOM	260	CB	SER A	22140.164	3.572	6.146	1.00	0.00	C
ATOM	261	OG	SER A	22139.411	4.514	6.891	1.00	0.00	O
ATOM	262	H	SER A	22142.420	4.488	6.996	1.00	0.00	H
ATOM	263	HA	SER A	22140.599	2.440	7.909	1.00	0.00	H
ATOM	264	1HB	SER A	22140.721	4.097	5.384	1.00	0.00	H
ATOM	265	2HB	SER A	22139.484	2.874	5.679	1.00	0.00	H
ATOM	266	HG	SER A	22139.102	4.107	7.703	1.00	0.00	H
ATOM	267	N	LEU A	23140.979	0.519	6.258	1.00	0.00	N
ATOM	268	CA	LEU A	23141.426	-0.685	5.568	1.00	0.00	C
ATOM	269	C	LEU A	23140.955	-0.688	4.116	1.00	0.00	C
ATOM	270	O	LEU A	23139.917	-0.113	3.790	1.00	0.00	O
ATOM	271	CB	LEU A	23140.909	-1.932	6.287	1.00	0.00	C
ATOM	272	CG	LEU A	23141.123	-1.943	7.801	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.024	-2.738	8.489	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.490	-2.518	8.139	1.00	0.00	C
ATOM	275	H	LEU A	23140.110	0.516	6.709	1.00	0.00	H
ATOM	276	HA	LEU A	23142.506	-0.694	5.583	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.849	-2.019	6.092	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.406	-2.795	5.869	1.00	0.00	H
ATOM	279	HG	LEU A	23141.084	-0.930	8.171	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.188	-2.087	8.700	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.403	-3.150	9.412	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.702	-3.541	7.843	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.155	-2.385	7.298	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.394	-3.570	8.361	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.893	-2.004	9.000	1.00	0.00	H
ATOM	286	N	ALAA	24141.724	-1.339	3.251	1.00	0.00	N
ATOM	287	CA	ALAA	24141.385	-1.418	1.835	1.00	0.00	C
ATOM	288	C	ALAA	24142.041	-2.628	1.179	1.00	0.00	C
ATOM	289	O	ALAA	24143.016	-3.174	1.693	1.00	0.00	O

ATOM	290	CB	ALA A	24141.802	-0.139	1.123	1.00	0.00	C
ATOM	291	H	ALA A	24142.540	-1.778	3.572	1.00	0.00	H
ATOM	292	HA	ALA A	24140.313	-1.513	1.755	1.00	0.00	H
ATOM	293	1HB	ALA A	24140.980	0.563	1.133	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.068	-0.367	0.101	1.00	0.00	H
ATOM	295	3HB	ALA A	24142.652	0.294	1.628	1.00	0.00	H
ATOM	296	N	GLU A	25141.498	-3.042	0.039	1.00	0.00	N
ATOM	297	CA	GLU A	25142.029	-4.188	-0.691	1.00	0.00	C
ATOM	298	C	GLU A	25142.552	-3.765	-2.060	1.00	0.00	C
ATOM	299	O	GLU A	25142.262	-2.666	-2.533	1.00	0.00	O
ATOM	300	CB	GLU A	25140.950	-5.261	-0.853	1.00	0.00	C
ATOM	301	CG	GLU A	25141.492	-6.603	-1.318	1.00	0.00	C
ATOM	302	CD	GLU A	25140.474	-7.720	-1.184	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.261	-7.428	-1.239	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.891	-8.886	-1.025	1.00	0.00	O
ATOM	305	H	GLU A	25140.721	-2.564	-0.322	1.00	0.00	H
ATOM	306	HA	GLU A	25142.847	-4.597	-0.116	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.457	-5.406	0.097	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.225	-4.919	-1.576	1.00	0.00	H
ATOM	309	1HG	GLU A	25141.779	-6.522	-2.355	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.358	-6.852	-0.724	1.00	0.00	H
ATOM	311	N	VAL A	26143.325	-4.643	-2.692	1.00	0.00	N
ATOM	312	CA	VAL A	26143.887	-4.358	-4.006	1.00	0.00	C
ATOM	313	C	VAL A	26143.611	-5.497	-4.981	1.00	0.00	C
ATOM	314	O	VAL A	26143.746	-6.670	-4.634	1.00	0.00	O
ATOM	315	CB	VAL A	26145.407	-4.122	-3.927	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.941	-3.628	-5.263	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.737	-3.136	-2.817	1.00	0.00	C
ATOM	318	H	VAL A	26143.521	-5.503	-2.264	1.00	0.00	H
ATOM	319	HA	VAL A	26143.423	-3.457	-4.380	1.00	0.00	H
ATOM	320	HB	VAL A	26145.887	-5.062	-3.699	1.00	0.00	H

ATOM	321	1HG1	VAL A	26145.299	-3.976	-6.058	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.941	-4.011	-5.414	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.966	-2.549	-5.265	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.399	-2.150	-3.097	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.805	-3.118	-2.657	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.242	-3.441	-1.907	1.00	0.00	H
ATOM	327	N	LYS A	27143.225	-5.144	-6.202	1.00	0.00	N
ATOM	328	CA	LYS A	27142.931	-6.138	-7.228	1.00	0.00	C
ATOM	329	C	LYS A	27144.213	-6.784	-7.743	1.00	0.00	C
ATOM	330	O	LYS A	27144.796	-6.331	-8.729	1.00	0.00	O
ATOM	331	CB	LYS A	27142.165	-5.494	-8.386	1.00	0.00	C
ATOM	332	CG	LYS A	27140.656	-5.617	-8.258	1.00	0.00	C
ATOM	333	CD	LYS A	27139.937	-4.761	-9.289	1.00	0.00	C
ATOM	334	CE	LYS A	27138.651	-4.173	-8.729	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.511	-4.327	-9.674	1.00	0.00	N
ATOM	336	H	LYS A	27143.137	-4.192	-6.420	1.00	0.00	H
ATOM	337	HA	LYS A	27142.313	-6.901	-6.780	1.00	0.00	H
ATOM	338	1HB	LYS A	27142.417	-4.445	-8.430	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.466	-5.968	-9.309	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.374	-6.649	-8.404	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.361	-5.297	-7.270	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.588	-3.954	-9.590	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.699	-5.372	-10.146	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.411	-4.677	-7.804	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.807	-3.121	-8.533	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.204	-5.320	-9.704	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.797	-4.036	-10.630	1.00	0.00	H
ATOM	348	3HZ	LYS A	27136.711	-3.737	-9.369	1.00	0.00	H
ATOM	349	N	GLU A	28144.647	-7.844	-7.069	1.00	0.00	N
ATOM	350	CA	GLU A	28145.860	-8.555	-7.456	1.00	0.00	C
ATOM	351	C	GLU A	28145.671	-10.063	-7.313	1.00	0.00	C

ATOM	352	O	GLU A	28144.752	-10.520	-6.634	1.00	0.00	O
ATOM	353	CB	GLU A	28147.042	-8.086	-6.602	1.00	0.00	C
ATOM	354	CG	GLU A	28148.215	-7.571	-7.419	1.00	0.00	C
ATOM	355	CD	GLU A	28149.010	-8.687	-8.068	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.929	-9.220	-7.412	1.00	0.00	O
ATOM	357	OE2	GLU A	28148.712	-9.029	-9.231	1.00	0.00	O
ATOM	358	H	GLU A	28144.138	-8.155	-6.291	1.00	0.00	H
ATOM	359	HA	GLU A	28146.062	-8.326	-8.491	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.707	-7.291	-5.952	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.387	-8.911	-5.996	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.840	-6.920	-8.194	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.872	-7.011	-6.768	1.00	0.00	H
ATOM	364	N	ASN A	29146.545	-10.831	-7.956	1.00	0.00	N
ATOM	365	CA	ASN A	29146.468	-12.286	-7.898	1.00	0.00	C
ATOM	366	C	ASN A	29146.578	-12.786	-6.458	1.00	0.00	C
ATOM	367	O	ASN A	29145.726	-13.544	-5.994	1.00	0.00	O
ATOM	368	CB	ASN A	29147.560	-12.922	-8.764	1.00	0.00	C
ATOM	369	CG	ASN A	29147.714	-12.234	-10.106	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.896	-12.416	-11.008	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.768	-11.437	-10.245	1.00	0.00	N
ATOM	372	H	ASN A	29147.257	-10.409	-8.482	1.00	0.00	H
ATOM	373	HA	ASN A	29145.504	-12.576	-8.288	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.502	-12.869	-8.243	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.312	-13.959	-8.939	1.00	0.00	H
ATOM	376	1HD2	ASN A	29149.378	-11.340	-9.485	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.892	-10.980	-11.102	1.00	0.00	H
ATOM	378	N	PRO A	30147.627	-12.366	-5.721	1.00	0.00	N
ATOM	379	CA	PRO A	30147.823	-12.783	-4.329	1.00	0.00	C
ATOM	380	C	PRO A	30146.865	-12.075	-3.372	1.00	0.00	C
ATOM	381	O	PRO A	30146.976	-10.868	-3.155	1.00	0.00	O
ATOM	382	CB	PRO A	30149.265	-12.367	-4.042	1.00	0.00	C

ATOM	383	CG	PRO A	30149.496	-11.195	-4.930	1.00	0.00	C
ATOM	384	CD	PRO A	30148.698	-11.457	-6.179	1.00	0.00	C
ATOM	385	HA	PRO A	30147.725	-13.853	-4.217	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.365	-12.102	-2.999	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.933	-13.180	-4.280	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.150	-10.293	-4.446	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.546	-11.115	-5.167	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.286	-10.535	-6.561	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.316	-11.932	-6.923	1.00	0.00	H
ATOM	392	N	PRO A	31145.906	-12.813	-2.784	1.00	0.00	N
ATOM	393	CA	PRO A	31144.930	-12.241	-1.850	1.00	0.00	C
ATOM	394	C	PRO A	31145.590	-11.713	-0.581	1.00	0.00	C
ATOM	395	O	PRO A	31145.765	-12.448	0.391	1.00	0.00	O
ATOM	396	CB	PRO A	31144.001	-13.417	-1.519	1.00	0.00	C
ATOM	397	CG	PRO A	31144.257	-14.435	-2.578	1.00	0.00	C
ATOM	398	CD	PRO A	31145.692	-14.255	-2.980	1.00	0.00	C
ATOM	399	HA	PRO A	31144.361	-11.448	-2.313	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.239	-13.801	-0.538	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.973	-13.082	-1.537	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.100	-15.427	-2.181	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.607	-14.259	-3.422	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.340	-14.834	-2.339	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.834	-14.531	-4.014	1.00	0.00	H
ATOM	406	N	PHE A	32145.952	-10.435	-0.595	1.00	0.00	N
ATOM	407	CA	PHE A	32146.592	-9.808	0.557	1.00	0.00	C
ATOM	408	C	PHE A	32145.757	-8.643	1.076	1.00	0.00	C
ATOM	409	O	PHE A	32145.181	-7.883	0.297	1.00	0.00	O
ATOM	410	CB	PHE A	32147.994	-9.321	0.186	1.00	0.00	C
ATOM	411	CG	PHE A	32148.015	-8.391	-0.994	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.523	-8.809	-2.213	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.527	-7.099	-0.882	1.00	0.00	C

ATOM	414	CE1	PHE	A	32148.543	-7.956	-3.300	1.00	0.00	C
ATOM	415	CE2	PHE	A	32147.545	-6.241	-1.966	1.00	0.00	C
ATOM	416	CZ	PHE	A	32148.055	-6.671	-3.176	1.00	0.00	C
ATOM	417	H	PHE	A	32145.786	-9.899	-1.399	1.00	0.00	H
ATOM	418	HA	PHE	A	32146.674	-10.552	1.335	1.00	0.00	H
ATOM	419	1HB	PHE	A	32148.419	-8.797	1.029	1.00	0.00	H
ATOM	420	2HB	PHE	A	32148.613	-10.174	-0.051	1.00	0.00	H
ATOM	421	HD1	PHE	A	32148.905	-9.814	-2.311	1.00	0.00	H
ATOM	422	HD2	PHE	A	32147.129	-6.763	0.063	1.00	0.00	H
ATOM	423	HE1	PHE	A	32148.943	-8.294	-4.245	1.00	0.00	H
ATOM	424	HE2	PHE	A	32147.161	-5.236	-1.866	1.00	0.00	H
ATOM	425	HZ	PHE	A	32148.069	-6.002	-4.024	1.00	0.00	H
ATOM	426	N	TYR	A	33145.693	-8.510	2.396	1.00	0.00	N
ATOM	427	CA	TYR	A	33144.927	-7.438	3.020	1.00	0.00	C
ATOM	428	C	TYR	A	33145.848	-6.469	3.756	1.00	0.00	C
ATOM	429	O	TYR	A	33146.851	-6.875	4.343	1.00	0.00	O
ATOM	430	CB	TYR	A	33143.897	-8.017	3.993	1.00	0.00	C
ATOM	431	CG	TYR	A	33142.585	-8.384	3.336	1.00	0.00	C
ATOM	432	CD1	TYR	A	33142.091	-9.681	3.404	1.00	0.00	C
ATOM	433	CD2	TYR	A	33141.841	-7.434	2.647	1.00	0.00	C
ATOM	434	CE1	TYR	A	33140.893	-10.021	2.806	1.00	0.00	C
ATOM	435	CE2	TYR	A	33140.642	-7.766	2.047	1.00	0.00	C
ATOM	436	CZ	TYR	A	33140.173	-9.060	2.128	1.00	0.00	C
ATOM	437	OH	TYR	A	33138.979	-9.394	1.531	1.00	0.00	O
ATOM	438	H	TYR	A	33146.173	-9.148	2.965	1.00	0.00	H
ATOM	439	HA	TYR	A	33144.409	-6.901	2.240	1.00	0.00	H
ATOM	440	1HB	TYR	A	33144.302	-8.910	4.446	1.00	0.00	H
ATOM	441	2HB	TYR	A	33143.691	-7.290	4.764	1.00	0.00	H
ATOM	442	HD1	TYR	A	33142.658	-10.432	3.937	1.00	0.00	H
ATOM	443	HD2	TYR	A	33142.212	-6.422	2.585	1.00	0.00	H
ATOM	444	HE1	TYR	A	33140.525	-11.034	2.870	1.00	0.00	H

ATOM	445	HE2 TYR A	33140.079	-7.013	1.516	1.00	0.00	H
ATOM	446	HH TYR A	33139.062	-10.249	1.103	1.00	0.00	H
ATOM	447	N GLY A	34145.499	-5.187	3.720	1.00	0.00	N
ATOM	448	CA GLY A	34146.305	-4.181	4.387	1.00	0.00	C
ATOM	449	C GLY A	34145.514	-2.932	4.719	1.00	0.00	C
ATOM	450	O GLY A	34144.341	-2.817	4.363	1.00	0.00	O
ATOM	451	H GLY A	34144.688	-4.922	3.237	1.00	0.00	H
ATOM	452	1HA GLY A	34146.698	-4.599	5.303	1.00	0.00	H
ATOM	453	2HA GLY A	34147.129	-3.912	3.744	1.00	0.00	H
ATOM	454	N VAL A	35146.158	-1.992	5.406	1.00	0.00	N
ATOM	455	CA VAL A	35145.509	-0.744	5.787	1.00	0.00	C
ATOM	456	C VAL A	35146.233	0.457	5.185	1.00	0.00	C
ATOM	457	O VAL A	35147.455	0.447	5.037	1.00	0.00	O
ATOM	458	CB VAL A	35145.454	-0.586	7.320	1.00	0.00	C
ATOM	459	CG1 VAL A	35146.856	-0.544	7.909	1.00	0.00	C
ATOM	460	CG2 VAL A	35144.668	0.660	7.704	1.00	0.00	C
ATOM	461	H VAL A	35147.092	-2.143	5.661	1.00	0.00	H
ATOM	462	HA VAL A	35144.496	-0.767	5.412	1.00	0.00	H
ATOM	463	HB VAL A	35144.943	-1.445	7.731	1.00	0.00	H
ATOM	464	1HG1 VAL A	35147.558	-0.950	7.195	1.00	0.00	H
ATOM	465	2HG1 VAL A	35146.884	-1.131	8.815	1.00	0.00	H
ATOM	466	3HG1 VAL A	35147.122	0.479	8.134	1.00	0.00	H
ATOM	467	1HG2 VAL A	35144.784	0.847	8.761	1.00	0.00	H
ATOM	468	2HG2 VAL A	35143.623	0.511	7.476	1.00	0.00	H
ATOM	469	3HG2 VAL A	35145.041	1.506	7.146	1.00	0.00	H
ATOM	470	N ILE A	36145.471	1.489	4.839	1.00	0.00	N
ATOM	471	CA ILE A	36146.040	2.697	4.254	1.00	0.00	C
ATOM	472	C ILE A	36146.923	3.427	5.259	1.00	0.00	C
ATOM	473	O ILE A	36146.554	3.588	6.423	1.00	0.00	O
ATOM	474	CB ILE A	36144.940	3.656	3.758	1.00	0.00	C
ATOM	475	CG1 ILE A	36143.946	2.911	2.864	1.00	0.00	C

ATOM	476	CG2	ILE A	36145.556	4.830	3.011	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.842	3.792	2.320	1.00	0.00	C
ATOM	478	H	ILE A	36144.502	1.437	4.982	1.00	0.00	H
ATOM	479	HA	ILE A	36146.642	2.404	3.405	1.00	0.00	H
ATOM	480	HB	ILE A	36144.417	4.045	4.620	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.475	2.488	2.024	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.487	2.116	3.433	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.023	5.736	3.261	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.488	4.655	1.947	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.593	4.933	3.293	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.744	3.629	1.256	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.084	4.828	2.505	1.00	0.00	H
ATOM	488	3HD1	ILE A	36141.911	3.546	2.810	1.00	0.00	H
ATOM	489	N	ARG A	37148.092	3.867	4.803	1.00	0.00	N
ATOM	490	CA	ARG A	37149.029	4.580	5.663	1.00	0.00	C
ATOM	491	C	ARG A	37149.269	5.996	5.154	1.00	0.00	C
ATOM	492	O	ARG A	37148.892	6.972	5.803	1.00	0.00	O
ATOM	493	CB	ARG A	37150.356	3.822	5.743	1.00	0.00	C
ATOM	494	CG	ARG A	37150.197	2.352	6.097	1.00	0.00	C
ATOM	495	CD	ARG A	37150.021	2.156	7.594	1.00	0.00	C
ATOM	496	NE	ARG A	37148.758	2.713	8.076	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.512	3.000	9.352	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.439	2.784	10.277	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.338	3.504	9.704	1.00	0.00	N
ATOM	500	H	ARG A	37148.330	3.708	3.865	1.00	0.00	H
ATOM	501	HA	ARG A	37148.597	4.635	6.651	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.853	3.888	4.786	1.00	0.00	H
ATOM	503	2HB	ARG A	37150.978	4.286	6.494	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.327	1.962	5.589	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.077	1.817	5.773	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.043	1.100	7.811	1.00	0.00	H



ATOM	507	2HD	ARG A	37150.836	2.645	8.106	1.00	0.00	H
ATOM	508	HE	ARG A	37148.056	2.880	7.413	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.326	2.403	10.019	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.249	3.002	11.235	1.00	0.00	H
ATOM	511	1HH2	ARG A	37146.636	3.668	9.010	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.153	3.719	10.663	1.00	0.00	H
ATOM	513	N	TRP A	38149.898	6.105	3.988	1.00	0.00	N
ATOM	514	CA	TRP A	38150.187	7.404	3.394	1.00	0.00	C
ATOM	515	C	TRP A	38149.545	7.532	2.015	1.00	0.00	C
ATOM	516	O	TRP A	38149.685	6.650	1.169	1.00	0.00	O
ATOM	517	CB	TRP A	38151.700	7.620	3.290	1.00	0.00	C
ATOM	518	CG	TRP A	38152.081	8.807	2.453	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.290	10.084	2.887	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.288	8.824	1.036	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.615	10.894	1.826	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.621	10.144	0.679	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.226	7.851	0.035	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.890	10.514	-0.637	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.494	8.218	-1.270	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.823	9.540	-1.596	1.00	0.00	C
ATOM	527	H	TRP A	38150.175	5.290	3.516	1.00	0.00	H
ATOM	528	HA	TRP A	38149.770	8.163	4.041	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.106	7.768	4.280	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.152	6.742	2.850	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.207	10.398	3.917	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.812	11.853	1.882	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.975	6.827	0.266	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.142	11.529	-0.906	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.451	7.480	-2.057	1.00	0.00	H
ATOM	536	HH2	TRP A	38153.025	9.783	-2.630	1.00	0.00	H
ATOM	537	N	ILE A	39148.851	8.643	1.797	1.00	0.00	N

ATOM	538	CA	ILE A	39148.196	8.901	0.522	1.00	0.00	C
ATOM	539	C	ILE A	39148.696	10.208	-0.082	1.00	0.00	C
ATOM	540	O	ILE A	39148.342	11.292	0.385	1.00	0.00	O
ATOM	541	CB	ILE A	39146.665	8.969	0.676	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.155	7.763	1.468	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.997	9.034	-0.689	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.700	7.873	1.867	1.00	0.00	C
ATOM	545	H	ILE A	39148.784	9.312	2.511	1.00	0.00	H
ATOM	546	HA	ILE A	39148.436	8.089	-0.149	1.00	0.00	H
ATOM	547	HB	ILE A	39146.419	9.873	1.212	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.267	6.872	0.867	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.741	7.659	2.369	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.932	9.165	-0.563	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.186	8.116	-1.227	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.398	9.867	-1.247	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.343	8.870	1.656	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.601	7.672	2.924	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.118	7.156	1.308	1.00	0.00	H
ATOM	556	N	GLY A	40149.524	10.102	-1.116	1.00	0.00	N
ATOM	557	CA	GLY A	40150.062	11.288	-1.754	1.00	0.00	C
ATOM	558	C	GLY A	40150.687	10.994	-3.103	1.00	0.00	C
ATOM	559	O	GLY A	40150.507	9.911	-3.657	1.00	0.00	O
ATOM	560	H	GLY A	40149.775	9.213	-1.443	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.266	12.005	-1.886	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.812	11.719	-1.108	1.00	0.00	H
ATOM	563	N	GLN A	41151.419	11.969	-3.631	1.00	0.00	N
ATOM	564	CA	GLN A	41152.074	11.822	-4.923	1.00	0.00	C
ATOM	565	C	GLN A	41153.553	12.199	-4.826	1.00	0.00	C
ATOM	566	O	GLN A	41153.888	13.351	-4.553	1.00	0.00	O
ATOM	567	CB	GLN A	41151.378	12.701	-5.960	1.00	0.00	C
ATOM	568	CG	GLN A	41149.865	12.552	-5.965	1.00	0.00	C

ATOM	569	CD	GLN A	41149.150	13.875	-6.144	1.00	0.00	C
ATOM	570	OE1	GLN A	41149.087	14.690	-5.223	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.605	14.096	-7.334	1.00	0.00	N
ATOM	572	H	GLN A	41151.520	12.810	-3.140	1.00	0.00	H
ATOM	573	HA	GLN A	41151.991	10.790	-5.225	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.613	13.735	-5.756	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.747	12.445	-6.940	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.582	11.896	-6.775	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.556	12.115	-5.027	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.695	13.401	-8.019	1.00	0.00	H
ATOM	579	2HE2	GLN A	41148.137	14.944	-7.479	1.00	0.00	H
ATOM	580	N	PRO A	42154.461	11.230	-5.046	1.00	0.00	N
ATOM	581	CA	PRO A	42155.905	11.476	-4.976	1.00	0.00	C
ATOM	582	C	PRO A	42156.352	12.574	-5.936	1.00	0.00	C
ATOM	583	O	PRO A	42155.656	12.888	-6.902	1.00	0.00	O
ATOM	584	CB	PRO A	42156.522	10.133	-5.379	1.00	0.00	C
ATOM	585	CG	PRO A	42155.458	9.127	-5.104	1.00	0.00	C
ATOM	586	CD	PRO A	42154.157	9.826	-5.377	1.00	0.00	C
ATOM	587	HA	PRO A	42156.214	11.730	-3.974	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.785	10.154	-6.427	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.404	9.945	-4.785	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.573	8.279	-5.761	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.506	8.815	-4.071	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.885	9.725	-6.418	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.377	9.439	-4.739	1.00	0.00	H
ATOM	594	N	PRO A	43157.525	13.177	-5.681	1.00	0.00	N
ATOM	595	CA	PRO A	43158.062	14.246	-6.528	1.00	0.00	C
ATOM	596	C	PRO A	43158.558	13.725	-7.871	1.00	0.00	C
ATOM	597	O	PRO A	43159.736	13.402	-8.026	1.00	0.00	O
ATOM	598	CB	PRO A	43159.228	14.795	-5.708	1.00	0.00	C
ATOM	599	CG	PRO A	43159.660	13.656	-4.852	1.00	0.00	C

ATOM	600	CD	PRO A	43158.418	12.864	-4.549	1.00	0.00	C
ATOM	601	HA	PRO A	43157.333	15.026	-6.691	1.00	0.00	H
ATOM	602	1HB	PRO A	43160.017	15.113	-6.372	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.892	15.631	-5.112	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.373	13.045	-5.386	1.00	0.00	H
ATOM	605	2HG	PRO A	43160.098	14.029	-3.937	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.642	11.808	-4.517	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.982	13.186	-3.616	1.00	0.00	H
ATOM	608	N	GLY A	44157.654	13.647	-8.841	1.00	0.00	N
ATOM	609	CA	GLY A	44158.024	13.165	-10.157	1.00	0.00	C
ATOM	610	C	GLY A	44156.836	12.647	-10.941	1.00	0.00	C
ATOM	611	O	GLY A	44156.629	13.029	-12.093	1.00	0.00	O
ATOM	612	H	GLY A	44156.730	13.918	-8.661	1.00	0.00	H
ATOM	613	1HA	GLY A	44158.479	13.973	-10.709	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.745	12.368	-10.048	1.00	0.00	H
ATOM	615	N	LEU A	45156.053	11.772	-10.319	1.00	0.00	N
ATOM	616	CA	LEU A	45154.879	11.202	-10.969	1.00	0.00	C
ATOM	617	C	LEU A	45153.616	11.510	-10.175	1.00	0.00	C
ATOM	618	O	LEU A	45153.442	11.024	-9.058	1.00	0.00	O
ATOM	619	CB	LEU A	45155.041	9.689	-11.125	1.00	0.00	C
ATOM	620	CG	LEU A	45155.515	8.954	-9.869	1.00	0.00	C
ATOM	621	CD1	LEU A	45155.162	7.475	-9.947	1.00	0.00	C
ATOM	622	CD2	LEU A	45157.014	9.142	-9.678	1.00	0.00	C
ATOM	623	H	LEU A	45156.268	11.505	-9.398	1.00	0.00	H
ATOM	624	HA	LEU A	45154.794	11.648	-11.948	1.00	0.00	H
ATOM	625	1HB	LEU A	45154.087	9.275	-11.421	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.755	9.503	-11.913	1.00	0.00	H
ATOM	627	HG	LEU A	45155.013	9.372	-9.007	1.00	0.00	H
ATOM	628	1HD1	LEU A	45154.447	7.235	-9.174	1.00	0.00	H
ATOM	629	2HD1	LEU A	45156.054	6.882	-9.808	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.733	7.256	-10.913	1.00	0.00	H

ATOM	631	1HD2	LEU A	45157.190	9.824	-8.860	1.00	0.00	H
ATOM	632	2HD2	LEU A	45157.446	9.547	-10.581	1.00	0.00	H
ATOM	633	3HD2	LEU A	45157.472	8.189	-9.457	1.00	0.00	H
ATOM	634	N	ASN A	46152.733	12.316	-10.757	1.00	0.00	N
ATOM	635	CA	ASN A	46151.489	12.675	-10.091	1.00	0.00	C
ATOM	636	C	ASN A	46150.524	11.495	-10.090	1.00	0.00	C
ATOM	637	O	ASN A	46149.963	11.136	-11.126	1.00	0.00	O
ATOM	638	CB	ASN A	46150.846	13.877	-10.787	1.00	0.00	C
ATOM	639	CG	ASN A	46149.797	14.553	-9.926	1.00	0.00	C
ATOM	640	OD1	ASN A	46150.121	15.335	-9.032	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.530	14.254	-10.192	1.00	0.00	N
ATOM	642	H	ASN A	46152.923	12.673	-11.649	1.00	0.00	H
ATOM	643	HA	ASN A	46151.720	12.939	-9.070	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.612	14.600	-11.022	1.00	0.00	H
ATOM	645	2HB	ASN A	46150.376	13.546	-11.701	1.00	0.00	H
ATOM	646	1HD2	ASN A	46148.347	13.622	-10.919	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.831	14.677	-9.651	1.00	0.00	H
ATOM	648	N	GLU A	47150.338	10.894	-8.921	1.00	0.00	N
ATOM	649	CA	GLU A	47149.443	9.754	-8.778	1.00	0.00	C
ATOM	650	C	GLU A	47149.162	9.466	-7.308	1.00	0.00	C
ATOM	651	O	GLU A	47150.081	9.199	-6.533	1.00	0.00	O
ATOM	652	CB	GLU A	47150.045	8.515	-9.446	1.00	0.00	C
ATOM	653	CG	GLU A	47151.547	8.381	-9.246	1.00	0.00	C
ATOM	654	CD	GLU A	47152.173	7.370	-10.187	1.00	0.00	C
ATOM	655	OE1	GLU A	47152.385	6.215	-9.762	1.00	0.00	O
ATOM	656	OE2	GLU A	47152.450	7.733	-11.350	1.00	0.00	O
ATOM	657	H	GLU A	47150.816	11.227	-8.133	1.00	0.00	H
ATOM	658	HA	GLU A	47148.513	9.999	-9.269	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.571	7.634	-9.039	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.849	8.561	-10.507	1.00	0.00	H
ATOM	661	1HG	GLU A	47152.009	9.342	-9.419	1.00	0.00	H

ATOM	662	2HG	GLU A	47151.737	8.070	-8.229	1.00	0.00	H
ATOM	663	N	VAL A	48147.890	9.511	-6.928	1.00	0.00	N
ATOM	664	CA	VAL A	48147.501	9.244	-5.550	1.00	0.00	C
ATOM	665	C	VAL A	48147.787	7.793	-5.183	1.00	0.00	C
ATOM	666	O	VAL A	48147.023	6.893	-5.532	1.00	0.00	O
ATOM	667	CB	VAL A	48146.007	9.539	-5.318	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.668	9.451	-3.838	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.641	10.906	-5.876	1.00	0.00	C
ATOM	670	H	VAL A	48147.199	9.723	-7.590	1.00	0.00	H
ATOM	671	HA	VAL A	48148.082	9.889	-4.906	1.00	0.00	H
ATOM	672	HB	VAL A	48145.428	8.793	-5.841	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.658	9.798	-3.679	1.00	0.00	H
ATOM	674	2HG1	VAL A	48146.354	10.065	-3.274	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.752	8.425	-3.511	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.683	11.210	-5.480	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.584	10.851	-6.953	1.00	0.00	H
ATOM	678	3HG2	VAL A	48146.393	11.625	-5.590	1.00	0.00	H
ATOM	679	N	LEU A	49148.894	7.572	-4.483	1.00	0.00	N
ATOM	680	CA	LEU A	49149.282	6.227	-4.076	1.00	0.00	C
ATOM	681	C	LEU A	49149.109	6.044	-2.574	1.00	0.00	C
ATOM	682	O	LEU A	49149.761	6.719	-1.778	1.00	0.00	O
ATOM	683	CB	LEU A	49150.735	5.952	-4.470	1.00	0.00	C
ATOM	684	CG	LEU A	49151.015	5.988	-5.973	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.444	6.438	-6.238	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.760	4.623	-6.594	1.00	0.00	C
ATOM	687	H	LEU A	49149.464	8.329	-4.238	1.00	0.00	H
ATOM	688	HA	LEU A	49148.641	5.527	-4.589	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.362	6.690	-3.990	1.00	0.00	H
ATOM	690	2HB	LEU A	49151.008	4.977	-4.099	1.00	0.00	H
ATOM	691	HG	LEU A	49150.350	6.699	-6.441	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.819	5.943	-7.122	1.00	0.00	H

ATOM	693	2HD1	LEU A	49153.065	6.181	-5.392	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.463	7.507	-6.388	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.851	4.693	-7.667	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.765	4.292	-6.337	1.00	0.00	H
ATOM	697	3HD2	LEU A	49151.484	3.915	-6.217	1.00	0.00	H
ATOM	698	N	ALAA	50148.226	5.129	-2.194	1.00	0.00	N
ATOM	699	CA	ALAA	50147.969	4.861	-0.786	1.00	0.00	C
ATOM	700	C	ALAA	50148.858	3.732	-0.273	1.00	0.00	C
ATOM	701	O	ALAA	50148.738	2.588	-0.710	1.00	0.00	O
ATOM	702	CB	ALAA	50146.502	4.520	-0.573	1.00	0.00	C
ATOM	703	H	ALAA	50147.735	4.623	-2.875	1.00	0.00	H
ATOM	704	HA	ALAA	50148.190	5.762	-0.233	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.135	3.962	-1.421	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.933	5.431	-0.467	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.398	3.923	0.322	1.00	0.00	H
ATOM	708	N	GLYA	51149.748	4.062	0.655	1.00	0.00	N
ATOM	709	CA	GLYA	51150.644	3.065	1.212	1.00	0.00	C
ATOM	710	C	GLYA	51149.919	2.054	2.078	1.00	0.00	C
ATOM	711	O	GLYA	51149.415	2.391	3.149	1.00	0.00	O
ATOM	712	H	GLYA	51149.798	4.991	0.966	1.00	0.00	H
ATOM	713	1HA	GLYA	51151.132	2.543	0.402	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.393	3.562	1.810	1.00	0.00	H
ATOM	715	N	LEU A	52149.865	0.809	1.614	1.00	0.00	N
ATOM	716	CA	LEU A	52149.195	-0.253	2.354	1.00	0.00	C
ATOM	717	C	LEU A	52150.209	-1.163	3.039	1.00	0.00	C
ATOM	718	O	LEU A	52151.303	-1.390	2.523	1.00	0.00	O
ATOM	719	CB	LEU A	52148.306	-1.073	1.417	1.00	0.00	C
ATOM	720	CG	LEU A	52147.107	-0.322	0.839	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.618	-0.994	-0.434	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.986	-0.238	1.865	1.00	0.00	C
ATOM	723	H	LEU A	52150.286	0.601	0.753	1.00	0.00	H

ATOM	724	HA	LEU A	52148.576	0.209	3.110	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.914	-1.427	0.597	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.937	-1.928	1.963	1.00	0.00	H
ATOM	727	HG	LEU A	52147.408	0.686	0.589	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.424	-1.565	-0.872	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.287	-0.242	-1.134	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.796	-1.654	-0.199	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.033	-0.274	1.359	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.068	0.689	2.413	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.063	-1.069	2.549	1.00	0.00	H
ATOM	734	N	GLU A	53149.838	-1.681	4.206	1.00	0.00	N
ATOM	735	CA	GLU A	53150.714	-2.566	4.963	1.00	0.00	C
ATOM	736	C	GLU A	53150.143	-3.980	5.022	1.00	0.00	C
ATOM	737	O	GLU A	53149.157	-4.233	5.713	1.00	0.00	O
ATOM	738	CB	GLU A	53150.916	-2.028	6.381	1.00	0.00	C
ATOM	739	CG	GLU A	53151.852	-2.875	7.226	1.00	0.00	C
ATOM	740	CD	GLU A	53151.363	-3.037	8.653	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.301	-2.022	9.377	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.042	-4.179	9.044	1.00	0.00	O
ATOM	743	H	GLU A	53148.952	-1.463	4.565	1.00	0.00	H
ATOM	744	HA	GLU A	53151.669	-2.597	4.460	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.326	-1.030	6.319	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.958	-1.984	6.876	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.934	-3.854	6.777	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.824	-2.406	7.245	1.00	0.00	H
ATOM	749	N	LEU A	54150.769	-4.896	4.290	1.00	0.00	N
ATOM	750	CA	LEU A	54150.323	-6.284	4.257	1.00	0.00	C
ATOM	751	C	LEU A	54150.508	-6.947	5.619	1.00	0.00	C
ATOM	752	O	LEU A	54151.536	-6.770	6.272	1.00	0.00	O
ATOM	753	CB	LEU A	54151.092	-7.064	3.189	1.00	0.00	C
ATOM	754	CG	LEU A	54151.112	-6.416	1.804	1.00	0.00	C



ATOM	755	CD1	LEU A	54152.283	-6.938	0.987	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.799	-6.672	1.079	1.00	0.00	C
ATOM	757	H	LEU A	54151.550	-4.633	3.759	1.00	0.00	H
ATOM	758	HA	LEU A	54149.273	-6.289	4.009	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.113	-7.182	3.524	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.646	-8.043	3.097	1.00	0.00	H
ATOM	761	HG	LEU A	54151.232	-5.348	1.914	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.188	-6.878	1.575	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.394	-6.342	0.094	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.101	-7.967	0.713	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.009	-6.810	1.802	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.890	-7.559	0.471	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.565	-5.826	0.449	1.00	0.00	H
ATOM	768	N	GLU A	55149.506	-7.711	6.039	1.00	0.00	N
ATOM	769	CA	GLU A	55149.557	-8.401	7.323	1.00	0.00	C
ATOM	770	C	GLU A	55150.544	-9.563	7.278	1.00	0.00	C
ATOM	771	O	GLU A	55151.175	-9.894	8.280	1.00	0.00	O
ATOM	772	CB	GLU A	55148.167	-8.912	7.708	1.00	0.00	C
ATOM	773	CG	GLU A	55147.280	-7.850	8.338	1.00	0.00	C
ATOM	774	CD	GLU A	55147.327	-7.878	9.853	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.247	-7.930	10.479	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.442	-7.847	10.414	1.00	0.00	O
ATOM	777	H	GLU A	55148.712	-7.813	5.474	1.00	0.00	H
ATOM	778	HA	GLU A	55149.888	-7.692	8.067	1.00	0.00	H
ATOM	779	1HB	GLU A	55147.674	-9.281	6.821	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.277	-9.724	8.411	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.610	-6.879	8.001	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.261	-8.015	8.020	1.00	0.00	H
ATOM	783	N	ASP A	56150.671	-10.178	6.107	1.00	0.00	N
ATOM	784	CA	ASP A	56151.582	-11.303	5.929	1.00	0.00	C
ATOM	785	C	ASP A	56152.945	-10.828	5.438	1.00	0.00	C

ATOM	786	O	ASP A	56153.040	-10.080	4.466	1.00	0.00	O
ATOM	787	CB	ASP A	56150.994	-12.311	4.939	1.00	0.00	C
ATOM	788	CG	ASP A	56151.316	-13.745	5.313	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.513	-14.568	4.395	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.373	-14.044	6.525	1.00	0.00	O
ATOM	791	H	ASP A	56150.141	-9.868	5.343	1.00	0.00	H
ATOM	792	HA	ASP A	56151.705	-11.785	6.888	1.00	0.00	H
ATOM	793	1HB	ASP A	56149.920	-12.198	4.916	1.00	0.00	H
ATOM	794	2HB	ASP A	56151.394	-12.116	3.955	1.00	0.00	H
ATOM	795	N	GLU A	57154.000	-11.268	6.118	1.00	0.00	N
ATOM	796	CA	GLU A	57155.359	-10.889	5.751	1.00	0.00	C
ATOM	797	C	GLU A	57155.757	-11.512	4.417	1.00	0.00	C
ATOM	798	O	GLU A	57156.062	-12.703	4.343	1.00	0.00	O
ATOM	799	CB	GLU A	57156.343	-11.318	6.842	1.00	0.00	C
ATOM	800	CG	GLU A	57156.235	-10.496	8.115	1.00	0.00	C
ATOM	801	CD	GLU A	57156.350	-11.343	9.367	1.00	0.00	C
ATOM	802	OE1	GLU A	57157.448	-11.381	9.961	1.00	0.00	O
ATOM	803	OE2	GLU A	57155.340	-11.968	9.755	1.00	0.00	O
ATOM	804	H	GLU A	57153.860	-11.863	6.884	1.00	0.00	H
ATOM	805	HA	GLU A	57155.388	-9.814	5.656	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.157	-12.353	7.091	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.349	-11.223	6.460	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.027	-9.762	8.123	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.281	-9.991	8.124	1.00	0.00	H
ATOM	810	N	CYS A	58155.754	-10.699	3.366	1.00	0.00	N
ATOM	811	CA	CYS A	58156.115	-11.172	2.034	1.00	0.00	C
ATOM	812	C	CYS A	58157.485	-10.640	1.622	1.00	0.00	C
ATOM	813	O	CYS A	58157.775	-9.454	1.782	1.00	0.00	O
ATOM	814	CB	CYS A	58155.060	-10.741	1.013	1.00	0.00	C
ATOM	815	SG	CYS A	58153.723	-11.936	0.785	1.00	0.00	S
ATOM	816	H	CYS A	58155.501	-9.760	3.488	1.00	0.00	H

ATOM	817	HA	CYS A	58156.155	-12.250	2.065	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.616	-9.811	1.335	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.537	-10.592	0.055	1.00	0.00	H
ATOM	820	HG	CYS A	58152.891	-11.484	0.940	1.00	0.00	H
ATOM	821	N	ALAA	59158.322	-11.525	1.092	1.00	0.00	N
ATOM	822	CA	ALAA	59159.660	-11.145	0.658	1.00	0.00	C
ATOM	823	C	ALAA	59159.602	-10.239	-0.568	1.00	0.00	C
ATOM	824	O	ALAA	59158.858	-10.503	-1.512	1.00	0.00	O
ATOM	825	CB	ALAA	59160.490	-12.385	0.361	1.00	0.00	C
ATOM	826	H	ALAA	59158.033	-12.456	0.991	1.00	0.00	H
ATOM	827	HA	ALAA	59160.134	-10.608	1.468	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.078	-13.229	0.894	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.509	-12.221	0.679	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.473	-12.585	-0.700	1.00	0.00	H
ATOM	831	N	GLY A	60160.393	-9.171	-0.546	1.00	0.00	N
ATOM	832	CA	GLY A	60160.417	-8.243	-1.660	1.00	0.00	C
ATOM	833	C	GLY A	60159.619	-6.984	-1.385	1.00	0.00	C
ATOM	834	O	GLY A	60159.093	-6.359	-2.306	1.00	0.00	O
ATOM	835	H	GLY A	60160.966	-9.012	0.234	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.441	-7.970	-1.866	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.005	-8.733	-2.531	1.00	0.00	H
ATOM	838	N	CYS A	61159.528	-6.611	-0.113	1.00	0.00	N
ATOM	839	CA	CYS A	61158.788	-5.417	0.283	1.00	0.00	C
ATOM	840	C	CYS A	61159.610	-4.561	1.242	1.00	0.00	C
ATOM	841	O	CYS A	61160.560	-5.040	1.859	1.00	0.00	O
ATOM	842	CB	CYS A	61157.462	-5.808	0.938	1.00	0.00	C
ATOM	843	SG	CYS A	61156.438	-6.906	-0.068	1.00	0.00	S
ATOM	844	H	CYS A	61159.969	-7.150	0.577	1.00	0.00	H
ATOM	845	HA	CYS A	61158.584	-4.843	-0.609	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.665	-6.311	1.871	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.890	-4.912	1.135	1.00	0.00	H

ATOM	848	HG	CYS A	61156.146	-7.632	0.488	1.00	0.00	H
ATOM	849	N	THR A	62159.235	-3.291	1.361	1.00	0.00	N
ATOM	850	CA	THR A	62159.937	-2.367	2.245	1.00	0.00	C
ATOM	851	C	THR A	62159.224	-2.251	3.587	1.00	0.00	C
ATOM	852	O	THR A	62158.216	-2.917	3.826	1.00	0.00	O
ATOM	853	CB	THR A	62160.047	-0.989	1.592	1.00	0.00	C
ATOM	854	OG1	THR A	62158.778	-0.363	1.524	1.00	0.00	O
ATOM	855	CG2	THR A	62160.612	-1.034	0.188	1.00	0.00	C
ATOM	856	H	THR A	62158.469	-2.968	0.842	1.00	0.00	H
ATOM	857	HA	THR A	62160.930	-2.758	2.410	1.00	0.00	H
ATOM	858	HB	THR A	62160.699	-0.370	2.190	1.00	0.00	H
ATOM	859	HG1	THR A	62158.171	-0.923	1.034	1.00	0.00	H
ATOM	860	1HG2	THR A	62159.845	-1.363	-0.498	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.442	-1.725	0.157	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.951	-0.050	-0.096	1.00	0.00	H
ATOM	863	N	ASP A	63159.753	-1.402	4.462	1.00	0.00	N
ATOM	864	CA	ASP A	63159.167	-1.198	5.781	1.00	0.00	C
ATOM	865	C	ASP A	63158.493	0.167	5.873	1.00	0.00	C
ATOM	866	O	ASP A	63158.496	0.803	6.927	1.00	0.00	O
ATOM	867	CB	ASP A	63160.241	-1.323	6.864	1.00	0.00	C
ATOM	868	CG	ASP A	63161.339	-0.290	6.711	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.512	-0.688	6.554	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.027	0.919	6.749	1.00	0.00	O
ATOM	871	H	ASP A	63160.558	-0.900	4.213	1.00	0.00	H
ATOM	872	HA	ASP A	63158.423	-1.965	5.936	1.00	0.00	H
ATOM	873	1HB	ASP A	63159.783	-1.193	7.834	1.00	0.00	H
ATOM	874	2HB	ASP A	63160.685	-2.306	6.809	1.00	0.00	H
ATOM	875	N	GLY A	64157.917	0.612	4.760	1.00	0.00	N
ATOM	876	CA	GLY A	64157.247	1.899	4.736	1.00	0.00	C
ATOM	877	C	GLY A	64158.022	2.941	3.954	1.00	0.00	C
ATOM	878	O	GLY A	64158.203	4.066	4.417	1.00	0.00	O

ATOM	879	H	GLY A	64157.947	0.062	3.950	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.273	1.777	4.285	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.121	2.246	5.751	1.00	0.00	H
ATOM	882	N	THR A	65158.480	2.565	2.764	1.00	0.00	N
ATOM	883	CA	THR A	65159.241	3.474	1.916	1.00	0.00	C
ATOM	884	C	THR A	65158.867	3.291	0.448	1.00	0.00	C
ATOM	885	O	THR A	65158.792	2.167	-0.048	1.00	0.00	O
ATOM	886	CB	THR A	65160.741	3.246	2.104	1.00	0.00	C
ATOM	887	OG1	THR A	65161.030	1.862	2.200	1.00	0.00	O
ATOM	888	CG2	THR A	65161.299	3.918	3.340	1.00	0.00	C
ATOM	889	H	THR A	65158.303	1.654	2.450	1.00	0.00	H
ATOM	890	HA	THR A	65159.000	4.484	2.213	1.00	0.00	H
ATOM	891	HB	THR A	65161.266	3.643	1.247	1.00	0.00	H
ATOM	892	HG1	THR A	65160.966	1.461	1.330	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.938	3.227	3.868	1.00	0.00	H
ATOM	894	2HG2	THR A	65160.486	4.219	3.984	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.870	4.787	3.050	1.00	0.00	H
ATOM	896	N	PHE A	66158.633	4.403	-0.240	1.00	0.00	N
ATOM	897	CA	PHE A	66158.267	4.366	-1.653	1.00	0.00	C
ATOM	898	C	PHE A	66159.287	5.119	-2.500	1.00	0.00	C
ATOM	899	O	PHE A	66159.399	6.342	-2.414	1.00	0.00	O
ATOM	900	CB	PHE A	66156.875	4.968	-1.856	1.00	0.00	C
ATOM	901	CG	PHE A	66156.271	4.642	-3.191	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.997	3.330	-3.541	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.975	5.648	-4.097	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.440	3.026	-4.769	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.418	5.351	-5.327	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.151	4.039	-5.663	1.00	0.00	C
ATOM	907	H	PHE A	66158.709	5.270	0.210	1.00	0.00	H
ATOM	908	HA	PHE A	66158.251	3.332	-1.963	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.212	4.592	-1.091	1.00	0.00	H

ATOM	910	2HB	PHE A	66156.941	6.043	-1.772	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.222	2.537	-2.842	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.184	6.675	-3.835	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.233	1.999	-5.030	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.193	6.145	-6.024	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.716	3.805	-6.623	1.00	0.00	H
ATOM	916	N	ARG A	67160.032	4.379	-3.316	1.00	0.00	N
ATOM	917	CA	ARG A	67161.043	4.978	-4.179	1.00	0.00	C
ATOM	918	C	ARG A	67162.102	5.702	-3.354	1.00	0.00	C
ATOM	919	O	ARG A	67162.609	6.749	-3.756	1.00	0.00	O
ATOM	920	CB	ARG A	67160.393	5.952	-5.163	1.00	0.00	C
ATOM	921	CG	ARG A	67159.132	5.407	-5.815	1.00	0.00	C
ATOM	922	CD	ARG A	67158.486	6.437	-6.728	1.00	0.00	C
ATOM	923	NE	ARG A	67158.779	6.181	-8.135	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.174	5.243	-8.860	1.00	0.00	C
ATOM	925	NH1	ARG A	67157.244	4.470	-8.314	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.498	5.078	-10.136	1.00	0.00	N
ATOM	927	H	ARG A	67159.898	3.410	-3.339	1.00	0.00	H
ATOM	928	HA	ARG A	67161.519	4.183	-4.733	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.137	6.861	-4.637	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.103	6.186	-5.943	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.388	4.535	-6.398	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.429	5.133	-5.042	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.417	6.408	-6.581	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.858	7.417	-6.464	1.00	0.00	H
ATOM	935	HE	ARG A	67159.463	6.738	-8.565	1.00	0.00	H
ATOM	936	1HH1	ARG A	67156.994	4.589	-7.353	1.00	0.00	H
ATOM	937	2HH1	ARG A	67156.792	3.767	-8.863	1.00	0.00	H
ATOM	938	1HH2	ARG A	67159.198	5.658	-10.552	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.043	4.373	-10.680	1.00	0.00	H
ATOM	940	N	GLY A	68162.431	5.138	-2.196	1.00	0.00	N

ATOM	941	CA	GLY A	68163.427	5.744	-1.332	1.00	0.00	C
ATOM	942	C	GLY A	68162.901	6.969	-0.610	1.00	0.00	C
ATOM	943	O	GLY A	68163.664	7.874	-0.273	1.00	0.00	O
ATOM	944	H	GLY A	68161.993	4.304	-1.926	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.742	5.015	-0.600	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.279	6.031	-1.930	1.00	0.00	H
ATOM	947	N	THR A	69161.594	6.997	-0.372	1.00	0.00	N
ATOM	948	CA	THR A	69160.967	8.120	0.314	1.00	0.00	C
ATOM	949	C	THR A	69160.042	7.631	1.425	1.00	0.00	C
ATOM	950	O	THR A	69158.874	7.326	1.184	1.00	0.00	O
ATOM	951	CB	THR A	69160.181	8.977	-0.679	1.00	0.00	C
ATOM	952	OG1	THR A	69160.884	9.098	-1.903	1.00	0.00	O
ATOM	953	CG2	THR A	69159.900	10.375	-0.172	1.00	0.00	C
ATOM	954	H	THR A	69161.038	6.245	-0.665	1.00	0.00	H
ATOM	955	HA	THR A	69161.750	8.720	0.753	1.00	0.00	H
ATOM	956	HB	THR A	69159.232	8.501	-0.878	1.00	0.00	H
ATOM	957	HG1	THR A	69160.321	9.520	-2.555	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.475	11.088	-0.744	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.176	10.443	0.870	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.847	10.592	-0.280	1.00	0.00	H
ATOM	961	N	ARG A	70160.572	7.560	2.642	1.00	0.00	N
ATOM	962	CA	ARG A	70159.794	7.109	3.789	1.00	0.00	C
ATOM	963	C	ARG A	70158.637	8.062	4.070	1.00	0.00	C
ATOM	964	O	ARG A	70158.834	9.269	4.210	1.00	0.00	O
ATOM	965	CB	ARG A	70160.687	6.996	5.025	1.00	0.00	C
ATOM	966	CG	ARG A	70160.042	6.239	6.174	1.00	0.00	C
ATOM	967	CD	ARG A	70160.682	6.596	7.506	1.00	0.00	C
ATOM	968	NE	ARG A	70162.111	6.294	7.526	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.828	6.174	8.641	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.255	6.332	9.827	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.123	5.897	8.569	1.00	0.00	N

ATOM	972	H	ARG A	70161.509	7.818	2.771	1.00	0.00	H
ATOM	973	HA	ARG A	70159.392	6.135	3.555	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.598	6.484	4.751	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.933	7.989	5.370	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.992	6.487	6.213	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.158	5.178	6.003	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.546	7.653	7.683	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.193	6.036	8.288	1.00	0.00	H
ATOM	980	HE	ARG A	70162.560	6.173	6.664	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.278	6.542	9.889	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.798	6.241	10.661	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.560	5.778	7.678	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.662	5.808	9.407	1.00	0.00	H
ATOM	985	N	TYR A	71157.430	7.513	4.150	1.00	0.00	N
ATOM	986	CA	TYR A	71156.240	8.315	4.414	1.00	0.00	C
ATOM	987	C	TYR A	71155.660	7.993	5.787	1.00	0.00	C
ATOM	988	O	TYR A	71155.224	8.886	6.513	1.00	0.00	O
ATOM	989	CB	TYR A	71155.186	8.072	3.332	1.00	0.00	C
ATOM	990	CG	TYR A	71155.555	8.651	1.985	1.00	0.00	C
ATOM	991	CD1	TYR A	71156.007	9.960	1.871	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.453	7.889	0.828	1.00	0.00	C
ATOM	993	CE1	TYR A	71156.346	10.493	0.642	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.791	8.415	-0.405	1.00	0.00	C
ATOM	995	CZ	TYR A	71156.235	9.717	-0.493	1.00	0.00	C
ATOM	996	OH	TYR A	71156.572	10.245	-1.718	1.00	0.00	O
ATOM	997	H	TYR A	71157.335	6.544	4.029	1.00	0.00	H
ATOM	998	HA	TYR A	71156.530	9.355	4.394	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.047	7.008	3.208	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.253	8.519	3.642	1.00	0.00	H
ATOM	1001	HD1	TYR A	71156.092	10.566	2.762	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.104	6.870	0.900	1.00	0.00	H



ATOM	1003	HE1	TYR A	71156.694	11.513	0.573	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.704	7.806	-1.293	1.00	0.00	H
ATOM	1005	HH	TYR A	71157.133	9.625	-2.190	1.00	0.00	H
ATOM	1006	N	PHE A	72155.657	6.711	6.136	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.130	6.271	7.423	1.00	0.00	C
ATOM	1008	C	PHE A	72156.016	5.188	8.030	1.00	0.00	C
ATOM	1009	O	PHE A	72156.906	4.655	7.369	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.703	5.747	7.261	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.559	4.720	6.175	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.366	5.106	4.858	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.619	3.367	6.470	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.233	4.163	3.857	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.489	2.419	5.474	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.295	2.818	4.165	1.00	0.00	C
ATOM	1017	H	PHE A	72156.018	6.045	5.515	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.119	7.124	8.086	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.384	5.295	8.189	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.048	6.574	7.026	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.317	6.158	4.616	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.772	3.055	7.493	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.081	4.477	2.835	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.537	1.368	5.718	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.192	2.079	3.384	1.00	0.00	H
ATOM	1026	N	THR A	73155.765	4.867	9.297	1.00	0.00	N
ATOM	1027	CA	THR A	73156.539	3.847	9.993	1.00	0.00	C
ATOM	1028	C	THR A	73155.724	2.569	10.166	1.00	0.00	C
ATOM	1029	O	THR A	73154.725	2.549	10.884	1.00	0.00	O
ATOM	1030	CB	THR A	73156.992	4.366	11.359	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.826	3.420	12.004	1.00	0.00	O
ATOM	1032	CG2	THR A	73155.842	4.675	12.294	1.00	0.00	C
ATOM	1033	H	THR A	73155.041	5.326	9.772	1.00	0.00	H

ATOM 1034 HA THR A 73157.411 3.626 9.396 1.00 0.00 H  
 ATOM 1035 HB THR A 73157.557 5.276 11.217 1.00 0.00 H  
 ATOM 1036 HG1 THR A 73157.355 2.588 12.098 1.00 0.00 H  
 ATOM 1037 1HG2 THR A 73155.091 5.244 11.765 1.00 0.00 H  
 ATOM 1038 2HG2 THR A 73156.205 5.252 13.132 1.00 0.00 H  
 ATOM 1039 3HG2 THR A 73155.410 3.753 12.652 1.00 0.00 H  
 ATOM 1040 N CYS A 74156.160 1.502 9.503 1.00 0.00 N  
 ATOM 1041 CA CYS A 74155.471 0.220 9.582 1.00 0.00 C  
 ATOM 1042 C CYS A 74156.459 -0.914 9.839 1.00 0.00 C  
 ATOM 1043 O CYS A 74157.656 -0.682 10.009 1.00 0.00 O  
 ATOM 1044 CB CYS A 74154.696 -0.048 8.291 1.00 0.00 C  
 ATOM 1045 SG CYS A 74153.000 0.580 8.306 1.00 0.00 S  
 ATOM 1046 H CYS A 74156.963 1.579 8.947 1.00 0.00 H  
 ATOM 1047 HA CYS A 74154.775 0.267 10.407 1.00 0.00 H  
 ATOM 1048 1HB CYS A 74155.211 0.421 7.467 1.00 0.00 H  
 ATOM 1049 2HB CYS A 74154.651 -1.114 8.121 1.00 0.00 H  
 ATOM 1050 HG CYS A 74152.701 0.649 7.397 1.00 0.00 H  
 ATOM 1051 N ALAA 75155.949 -2.142 9.866 1.00 0.00 N  
 ATOM 1052 CA ALAA 75156.786 -3.312 10.102 1.00 0.00 C  
 ATOM 1053 C ALAA 75157.751 -3.540 8.943 1.00 0.00 C  
 ATOM 1054 O ALAA 75157.777 -2.770 7.983 1.00 0.00 O  
 ATOM 1055 CB ALAA 75155.921 -4.543 10.320 1.00 0.00 C  
 ATOM 1056 H ALAA 75154.987 -2.262 9.724 1.00 0.00 H  
 ATOM 1057 HA ALAA 75157.356 -3.137 11.003 1.00 0.00 H  
 ATOM 1058 1HB ALAA 75156.535 -5.430 10.263 1.00 0.00 H  
 ATOM 1059 2HB ALAA 75155.156 -4.585 9.559 1.00 0.00 H  
 ATOM 1060 3HB ALAA 75155.457 -4.489 11.294 1.00 0.00 H  
 ATOM 1061 N LEU A 76158.542 -4.603 9.039 1.00 0.00 N  
 ATOM 1062 CA LEU A 76159.509 -4.934 7.999 1.00 0.00 C  
 ATOM 1063 C LEU A 76158.917 -5.923 7.001 1.00 0.00 C  
 ATOM 1064 O LEU A 76158.274 -6.899 7.387 1.00 0.00 O

ATOM	1065	CB	LEU A	76160.779	-5.517	8.620	1.00	0.00	C
ATOM	1066	CG	LEU A	76161.763	-4.484	9.173	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.495	-5.038	10.385	1.00	0.00	C
ATOM	1068	CD2	LEU A	76162.752	-4.063	8.097	1.00	0.00	C
ATOM	1069	H	LEU A	76158.474	-5.180	9.829	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.759	-4.022	7.478	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.490	-6.176	9.426	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.289	-6.098	7.867	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.215	-3.607	9.487	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76161.972	-4.750	11.285	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.500	-4.644	10.410	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76162.533	-6.115	10.320	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.670	-3.735	8.561	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.332	-3.253	7.518	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.957	-4.902	7.447	1.00	0.00	H
ATOM	1080	N	LYS A	77159.139	-5.665	5.715	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.628	-6.533	4.662	1.00	0.00	C
ATOM	1082	C	LYS A	77157.104	-6.595	4.699	1.00	0.00	C
ATOM	1083	O	LYS A	77156.509	-7.649	4.473	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.211	-7.940	4.804	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.726	-7.987	4.684	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.166	-8.174	3.241	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.624	-7.792	3.048	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.308	-8.683	2.071	1.00	0.00	N
ATOM	1089	H	LYS A	77159.659	-4.871	5.470	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.935	-6.120	3.713	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.936	-8.336	5.770	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.791	-8.571	4.035	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.135	-7.059	5.056	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.099	-8.810	5.275	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.037	-9.211	2.968	1.00	0.00	H

ATOM	1096	2HD	LYS A	77160.553	-7.553	2.604	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.671	-6.775	2.689	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.129	-7.860	4.001	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.812	-9.443	2.572	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.994	-8.140	1.510	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.612	-9.110	1.427	1.00	0.00	H
ATOM	1102	N	LYS A	78156.477	-5.460	4.988	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.023	-5.384	5.056	1.00	0.00	C
ATOM	1104	C	LYS A	78154.526	-4.015	4.601	1.00	0.00	C
ATOM	1105	O	LYS A	78153.613	-3.445	5.197	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.543	-5.667	6.481	1.00	0.00	C
ATOM	1107	CG	LYS A	78154.990	-7.018	7.016	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.535	-7.227	8.451	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.296	-8.107	8.521	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.334	-7.632	9.553	1.00	0.00	N
ATOM	1111	H	LYS A	78157.006	-4.653	5.159	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.621	-6.137	4.394	1.00	0.00	H
ATOM	1113	1HB	LYS A	78154.926	-4.899	7.137	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.464	-5.636	6.497	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.568	-7.797	6.398	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.067	-7.070	6.977	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.331	-7.699	9.006	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.307	-6.266	8.890	1.00	0.00	H
ATOM	1119	1HE	LYS A	78152.810	-8.100	7.557	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.601	-9.116	8.763	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78151.426	-8.129	9.451	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.170	-6.610	9.446	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.712	-7.813	10.505	1.00	0.00	H
ATOM	1124	N	ALAA	79155.135	-3.493	3.540	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.756	-2.191	3.006	1.00	0.00	C
ATOM	1126	C	ALAA	79154.589	-2.246	1.491	1.00	0.00	C

ATOM 1127 O ALAA 79155.567 -2.379 0.754 1.00 0.00 O  
 ATOM 1128 CB ALAA 79155.789 -1.143 3.387 1.00 0.00 C  
 ATOM 1129 H ALAA 79155.856 -3.996 3.108 1.00 0.00 H  
 ATOM 1130 HA ALAA 79153.812 -1.910 3.451 1.00 0.00 H  
 ATOM 1131 1HB ALAA 79156.035 -1.243 4.434 1.00 0.00 H  
 ATOM 1132 2HB ALAA 79155.387 -0.157 3.204 1.00 0.00 H  
 ATOM 1133 3HB ALAA 79156.681 -1.284 2.793 1.00 0.00 H  
 ATOM 1134 N LEUA 80153.346 -2.143 1.033 1.00 0.00 N  
 ATOM 1135 CA LEUA 80153.051 -2.181 -0.394 1.00 0.00 C  
 ATOM 1136 C LEUA 80152.282 -0.935 -0.825 1.00 0.00 C  
 ATOM 1137 O LEUA 80151.202 -0.652 -0.307 1.00 0.00 O  
 ATOM 1138 CB LEUA 80152.245 -3.435 -0.737 1.00 0.00 C  
 ATOM 1139 CG LEUA 80151.821 -3.553 -2.202 1.00 0.00 C  
 ATOM 1140 CD1 LEUA 80153.012 -3.915 -3.075 1.00 0.00 C  
 ATOM 1141 CD2 LEUA 80150.714 -4.585 -2.354 1.00 0.00 C  
 ATOM 1142 H LEUA 80152.609 -2.038 1.670 1.00 0.00 H  
 ATOM 1143 HA LEUA 80153.990 -2.211 -0.927 1.00 0.00 H  
 ATOM 1144 1HB LEUA 80152.842 -4.301 -0.485 1.00 0.00 H  
 ATOM 1145 2HB LEUA 80151.355 -3.444 -0.127 1.00 0.00 H  
 ATOM 1146 HG LEUA 80151.439 -2.599 -2.536 1.00 0.00 H  
 ATOM 1147 1HD1 LEUA 80153.565 -3.020 -3.319 1.00 0.00 H  
 ATOM 1148 2HD1 LEUA 80152.664 -4.382 -3.984 1.00 0.00 H  
 ATOM 1149 3HD1 LEUA 80153.654 -4.600 -2.542 1.00 0.00 H  
 ATOM 1150 1HD2 LEUA 80149.996 -4.463 -1.556 1.00 0.00 H  
 ATOM 1151 2HD2 LEUA 80151.137 -5.578 -2.307 1.00 0.00 H  
 ATOM 1152 3HD2 LEUA 80150.221 -4.447 -3.305 1.00 0.00 H  
 ATOM 1153 N PHEA 81152.846 -0.195 -1.772 1.00 0.00 N  
 ATOM 1154 CA PHEA 81152.214 1.019 -2.272 1.00 0.00 C  
 ATOM 1155 C PHEA 81151.401 0.732 -3.530 1.00 0.00 C  
 ATOM 1156 O PHEA 81151.843 -0.005 -4.411 1.00 0.00 O  
 ATOM 1157 CB PHEA 81153.272 2.086 -2.565 1.00 0.00 C

ATOM	1158	CG	PHE A	81153.894	2.672	-1.330	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.971	2.051	-0.719	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.400	3.844	-0.780	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.545	2.588	0.417	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.970	4.386	0.357	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.044	3.756	0.957	1.00	0.00	C
ATOM	1164	H	PHE A	81153.710	-0.473	-2.146	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.550	1.387	-1.504	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.061	1.647	-3.157	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.815	2.891	-3.124	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.364	1.137	-1.140	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.560	4.337	-1.247	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.384	2.094	0.884	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.576	5.300	0.776	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.490	4.178	1.845	1.00	0.00	H
ATOM	1173	N	VAL A	82150.212	1.320	-3.606	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.338	1.127	-4.758	1.00	0.00	C
ATOM	1175	C	VAL A	82148.527	2.385	-5.048	1.00	0.00	C
ATOM	1176	O	VAL A	82148.443	3.288	-4.216	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.372	-0.053	-4.539	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.117	-1.376	-4.623	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.657	0.082	-3.202	1.00	0.00	C
ATOM	1180	H	VAL A	82149.915	1.897	-2.873	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.957	0.905	-5.613	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.629	-0.034	-5.323	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.441	-1.670	-3.635	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.978	-1.265	-5.266	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82148.462	-2.133	-5.027	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82146.755	-0.511	-3.216	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82147.405	1.118	-3.032	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.306	-0.266	-2.412	1.00	0.00	H

ATOM	1189	N	LYS A	83147.929	2.438	-6.234	1.00	0.00	N
ATOM	1190	CA	LYS A	83147.125	3.585	-6.636	1.00	0.00	C
ATOM	1191	C	LYS A	83145.818	3.634	-5.853	1.00	0.00	C
ATOM	1192	O	LYS A	83145.041	2.678	-5.859	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.833	3.530	-8.136	1.00	0.00	C
ATOM	1194	CG	LYS A	83148.083	3.515	-8.999	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.742	3.365	-10.472	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.891	3.816	-11.360	1.00	0.00	C
ATOM	1197	NZ	LYS A	83149.817	2.695	-11.683	1.00	0.00	N
ATOM	1198	H	LYS A	83148.033	1.685	-6.855	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.690	4.479	-6.420	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.265	2.635	-8.347	1.00	0.00	H
ATOM	1201	2HB	LYS A	83146.243	4.391	-8.408	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.618	4.443	-8.858	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.709	2.688	-8.697	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.527	2.327	-10.679	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.871	3.965	-10.694	1.00	0.00	H
ATOM	1206	1HE	LYS A	83148.485	4.212	-12.279	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.442	4.590	-10.847	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83150.305	2.375	-10.823	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83150.527	3.006	-12.376	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.284	1.897	-12.084	1.00	0.00	H
ATOM	1211	N	LEU A	84145.581	4.755	-5.181	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.368	4.936	-4.393	1.00	0.00	C
ATOM	1213	C	LEU A	84143.126	4.784	-5.264	1.00	0.00	C
ATOM	1214	O	LEU A	84142.118	4.224	-4.833	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.376	6.313	-3.725	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.102	6.670	-2.958	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.017	5.873	-1.666	1.00	0.00	C
ATOM	1218	CD2	LEU A	84143.056	8.163	-2.669	1.00	0.00	C
ATOM	1219	H	LEU A	84146.239	5.480	-5.218	1.00	0.00	H

ATOM	1220	HA	LEU A	84144.353	4.174	-3.629	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.209	6.351	-3.039	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.530	7.059	-4.491	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.243	6.419	-3.562	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.508	6.458	-0.914	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.013	5.635	-1.323	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.469	4.959	-1.843	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.998	8.476	-2.244	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.259	8.370	-1.970	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.879	8.703	-3.588	1.00	0.00	H
ATOM	1230	N	LYS A	85143.207	5.285	-6.492	1.00	0.00	N
ATOM	1231	CA	LYS A	85142.089	5.204	-7.426	1.00	0.00	C
ATOM	1232	C	LYS A	85141.772	3.752	-7.773	1.00	0.00	C
ATOM	1233	O	LYS A	85140.646	3.427	-8.146	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.404	5.988	-8.701	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.788	5.703	-9.264	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.711	6.903	-9.121	1.00	0.00	C
ATOM	1237	CE	LYS A	85145.607	7.066	-10.338	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.828	7.053	-11.607	1.00	0.00	N
ATOM	1239	H	LYS A	85144.037	5.719	-6.778	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.226	5.644	-6.948	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.674	5.736	-9.454	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.337	7.044	-8.486	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.217	4.867	-8.732	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.694	5.455	-10.312	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.111	7.794	-9.006	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.328	6.767	-8.245	1.00	0.00	H
ATOM	1247	1HE	LYS A	85146.132	8.006	-10.259	1.00	0.00	H
ATOM	1248	2HE	LYS A	85146.320	6.255	-10.355	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85144.768	6.084	-11.980	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.288	7.658	-12.316	1.00	0.00	H



ATOM 1251 3HZ LYS A 85143.865 7.408 -11.439 1.00 0.00 H  
 ATOM 1252 N SER A 86142.772 2.885 -7.647 1.00 0.00 N  
 ATOM 1253 CA SER A 86142.596 1.468 -7.949 1.00 0.00 C  
 ATOM 1254 C SER A 86142.484 0.649 -6.668 1.00 0.00 C  
 ATOM 1255 O SER A 86142.895 -0.511 -6.624 1.00 0.00 O  
 ATOM 1256 CB SER A 86143.763 0.957 -8.795 1.00 0.00 C  
 ATOM 1257 OG SER A 86144.179 1.934 -9.734 1.00 0.00 O  
 ATOM 1258 H SER A 86143.648 3.203 -7.345 1.00 0.00 H  
 ATOM 1259 HA SER A 86141.681 1.362 -8.512 1.00 0.00 H  
 ATOM 1260 1HB SER A 86144.595 0.719 -8.151 1.00 0.00 H  
 ATOM 1261 2HB SER A 86143.456 0.069 -9.329 1.00 0.00 H  
 ATOM 1262 HG SER A 86144.469 2.723 -9.270 1.00 0.00 H  
 ATOM 1263 N CYSA 87141.926 1.258 -5.627 1.00 0.00 N  
 ATOM 1264 CA CYSA 87141.760 0.585 -4.346 1.00 0.00 C  
 ATOM 1265 C CYSA 87140.295 0.232 -4.103 1.00 0.00 C  
 ATOM 1266 O CYSA 87139.395 0.870 -4.648 1.00 0.00 O  
 ATOM 1267 CB CYSA 87142.277 1.469 -3.209 1.00 0.00 C  
 ATOM 1268 SG CYSA 87144.080 1.553 -3.104 1.00 0.00 S  
 ATOM 1269 H CYSA 87141.619 2.184 -5.725 1.00 0.00 H  
 ATOM 1270 HA CYSA 87142.338 -0.327 -4.372 1.00 0.00 H  
 ATOM 1271 1HB CYSA 87141.911 2.474 -3.350 1.00 0.00 H  
 ATOM 1272 2HB CYSA 87141.909 1.085 -2.269 1.00 0.00 H  
 ATOM 1273 HG CYSA 87144.430 0.680 -3.295 1.00 0.00 H  
 ATOM 1274 N ARG A 88140.066 -0.789 -3.284 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.710 -1.227 -2.971 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.470 -1.220 -1.460 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.274 -1.758 -0.698 1.00 0.00 O  
 ATOM 1278 CB ARG A 88138.463 -2.628 -3.535 1.00 0.00 C  
 ATOM 1279 CG ARG A 88137.305 -2.694 -4.518 1.00 0.00 C  
 ATOM 1280 CD ARG A 88136.151 -3.520 -3.972 1.00 0.00 C  
 ATOM 1281 NE ARG A 88135.512 -4.323 -5.012 1.00 0.00 N

ATOM 1282 CZ ARG A 88134.347 -4.946 -4.855 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88133.690 -4.862 -3.705 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88133.837 -5.656 -5.852 1.00 0.00 N  
 ATOM 1285 H ARG A 88140.824 -1.258 -2.880 1.00 0.00 H  
 ATOM 1286 HA ARG A 88138.025 -0.536 -3.438 1.00 0.00 H  
 ATOM 1287 1HB ARG A 88139.357 -2.960 -4.043 1.00 0.00 H  
 ATOM 1288 2HB ARG A 88138.253 -3.304 -2.718 1.00 0.00 H  
 ATOM 1289 1HG ARG A 88136.955 -1.690 -4.713 1.00 0.00 H  
 ATOM 1290 2HG ARG A 88137.652 -3.140 -5.439 1.00 0.00 H  
 ATOM 1291 1HD ARG A 88136.529 -4.178 -3.203 1.00 0.00 H  
 ATOM 1292 2HD ARG A 88135.418 -2.852 -3.544 1.00 0.00 H  
 ATOM 1293 HE ARG A 88135.977 -4.402 -5.871 1.00 0.00 H  
 ATOM 1294 1HH1 ARG A 88134.068 -4.327 -2.949 1.00 0.00 H  
 ATOM 1295 2HH1 ARG A 88132.814 -5.332 -3.594 1.00 0.00 H  
 ATOM 1296 1HH2 ARG A 88134.327 -5.723 -6.721 1.00 0.00 H  
 ATOM 1297 2HH2 ARG A 88132.961 -6.125 -5.735 1.00 0.00 H  
 ATOM 1298 N PRO A 89137.360 -0.611 -1.004 1.00 0.00 N  
 ATOM 1299 CA PRO A 89137.030 -0.544 0.424 1.00 0.00 C  
 ATOM 1300 C PRO A 89137.016 -1.921 1.079 1.00 0.00 C  
 ATOM 1301 O PRO A 89136.454 -2.872 0.536 1.00 0.00 O  
 ATOM 1302 CB PRO A 89135.626 0.067 0.440 1.00 0.00 C  
 ATOM 1303 CG PRO A 89135.525 0.825 -0.837 1.00 0.00 C  
 ATOM 1304 CD PRO A 89136.343 0.058 -1.837 1.00 0.00 C  
 ATOM 1305 HA PRO A 89137.713 0.100 0.957 1.00 0.00 H  
 ATOM 1306 1HB PRO A 89134.888 -0.720 0.493 1.00 0.00 H  
 ATOM 1307 2HB PRO A 89135.526 0.721 1.294 1.00 0.00 H  
 ATOM 1308 1HG PRO A 89134.494 0.874 -1.154 1.00 0.00 H  
 ATOM 1309 2HG PRO A 89135.926 1.819 -0.708 1.00 0.00 H  
 ATOM 1310 1HD PRO A 89135.729 -0.666 -2.353 1.00 0.00 H  
 ATOM 1311 2HD PRO A 89136.806 0.733 -2.543 1.00 0.00 H  
 ATOM 1312 N ASP A 90137.639 -2.020 2.248 1.00 0.00 N

ATOM	1313	CA	ASP A	90137.699	-3.282	2.978	1.00	0.00	C
ATOM	1314	C	ASP A	90136.690	-3.296	4.122	1.00	0.00	C
ATOM	1315	O	ASP A	90136.787	-2.501	5.058	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.109	-3.515	3.522	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.388	-4.979	3.796	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.186	-5.270	4.711	1.00	0.00	O
ATOM	1319	OD2	ASP A	90138.808	-5.835	3.095	1.00	0.00	O
ATOM	1320	H	ASP A	90138.068	-1.226	2.630	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.453	-4.075	2.288	1.00	0.00	H
ATOM	1322	1HB	ASP A	90139.829	-3.158	2.802	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.227	-2.965	4.444	1.00	0.00	H
ATOM	1324	N	SER A	91135.722	-4.204	4.040	1.00	0.00	N
ATOM	1325	CA	SER A	91134.695	-4.321	5.069	1.00	0.00	C
ATOM	1326	C	SER A	91134.986	-5.499	5.995	1.00	0.00	C
ATOM	1327	O	SER A	91134.070	-6.102	6.555	1.00	0.00	O
ATOM	1328	CB	SER A	91133.319	-4.494	4.424	1.00	0.00	C
ATOM	1329	OG	SER A	91132.300	-3.944	5.240	1.00	0.00	O
ATOM	1330	H	SER A	91135.699	-4.809	3.270	1.00	0.00	H
ATOM	1331	HA	SER A	91134.701	-3.410	5.650	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.306	-3.996	3.467	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.122	-5.547	4.284	1.00	0.00	H
ATOM	1334	HG	SER A	91131.591	-4.584	5.341	1.00	0.00	H
ATOM	1335	N	ARG A	92136.266	-5.822	6.150	1.00	0.00	N
ATOM	1336	CA	ARG A	92136.676	-6.929	7.006	1.00	0.00	C
ATOM	1337	C	ARG A	92136.335	-6.649	8.466	1.00	0.00	C
ATOM	1338	O	ARG A	92136.092	-7.572	9.243	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.178	-7.181	6.862	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.528	-8.159	5.751	1.00	0.00	C
ATOM	1341	CD	ARG A	92138.929	-9.516	6.308	1.00	0.00	C
ATOM	1342	NE	ARG A	92137.861	-10.122	7.098	1.00	0.00	N
ATOM	1343	CZ	ARG A	92138.051	-11.115	7.965	1.00	0.00	C

ATOM 1344 NH1 ARG A 92139.265 -11.616 8.155 1.00 0.00 N  
 ATOM 1345 NH2 ARG A 92137.024 -11.608 8.643 1.00 0.00 N  
 ATOM 1346 H ARG A 92136.950 -5.306 5.676 1.00 0.00 H  
 ATOM 1347 HA ARG A 92136.141 -7.811 6.686 1.00 0.00 H  
 ATOM 1348 1HB ARG A 92138.670 -6.242 6.653 1.00 0.00 H  
 ATOM 1349 2HB ARG A 92138.556 -7.576 7.793 1.00 0.00 H  
 ATOM 1350 1HG ARG A 92137.667 -8.285 5.111 1.00 0.00 H  
 ATOM 1351 2HG ARG A 92139.350 -7.758 5.177 1.00 0.00 H  
 ATOM 1352 1HD ARG A 92139.170 -10.172 5.484 1.00 0.00 H  
 ATOM 1353 2HD ARG A 92139.801 -9.391 6.933 1.00 0.00 H  
 ATOM 1354 HE ARG A 92136.953 -9.771 6.978 1.00 0.00 H  
 ATOM 1355 1HH1 ARG A 92140.044 -11.248 7.647 1.00 0.00 H  
 ATOM 1356 2HH1 ARG A 92139.401 -12.361 8.807 1.00 0.00 H  
 ATOM 1357 1HH2 ARG A 92136.107 -11.235 8.503 1.00 0.00 H  
 ATOM 1358 2HH2 ARG A 92137.166 -12.354 9.293 1.00 0.00 H  
 ATOM 1359 N PHE A 93136.321 -5.372 8.834 1.00 0.00 N  
 ATOM 1360 CA PHE A 93136.011 -4.976 10.204 1.00 0.00 C  
 ATOM 1361 C PHE A 93134.637 -4.319 10.290 1.00 0.00 C  
 ATOM 1362 O PHE A 93134.390 -3.488 11.164 1.00 0.00 O  
 ATOM 1363 CB PHE A 93137.080 -4.018 10.732 1.00 0.00 C  
 ATOM 1364 CG PHE A 93138.416 -4.670 10.948 1.00 0.00 C  
 ATOM 1365 CD1 PHE A 93139.106 -5.235 9.888 1.00 0.00 C  
 ATOM 1366 CD2 PHE A 93138.982 -4.718 12.213 1.00 0.00 C  
 ATOM 1367 CE1 PHE A 93140.335 -5.836 10.084 1.00 0.00 C  
 ATOM 1368 CE2 PHE A 93140.211 -5.316 12.415 1.00 0.00 C  
 ATOM 1369 CZ PHE A 93140.888 -5.877 11.348 1.00 0.00 C  
 ATOM 1370 H PHE A 93136.524 -4.680 8.171 1.00 0.00 H  
 ATOM 1371 HA PHE A 93136.009 -5.868 10.812 1.00 0.00 H  
 ATOM 1372 1HB PHE A 93137.215 -3.214 10.025 1.00 0.00 H  
 ATOM 1373 2HB PHE A 93136.751 -3.609 11.677 1.00 0.00 H  
 ATOM 1374 HD1 PHE A 93138.673 -5.203 8.898 1.00 0.00 H

ATOM 1375 HD2 PHE A 93138.453 -4.280 13.047 1.00 0.00 H  
 ATOM 1376 HE1 PHE A 93140.861 -6.273 9.248 1.00 0.00 H  
 ATOM 1377 HE2 PHE A 93140.641 -5.348 13.405 1.00 0.00 H  
 ATOM 1378 HZ PHE A 93141.848 -6.345 11.504 1.00 0.00 H  
 ATOM 1379 N ALA A 94133.742 -4.697 9.381 1.00 0.00 N  
 ATOM 1380 CA ALA A 94132.395 -4.141 9.363 1.00 0.00 C  
 ATOM 1381 C ALA A 94131.409 -5.069 10.064 1.00 0.00 C  
 ATOM 1382 O ALA A 94131.306 -6.249 9.730 1.00 0.00 O  
 ATOM 1383 CB ALA A 94131.951 -3.881 7.933 1.00 0.00 C  
 ATOM 1384 H ALA A 94133.994 -5.364 8.708 1.00 0.00 H  
 ATOM 1385 HA ALA A 94132.417 -3.196 9.885 1.00 0.00 H  
 ATOM 1386 1HB ALA A 94131.106 -3.209 7.934 1.00 0.00 H  
 ATOM 1387 2HB ALA A 94131.667 -4.815 7.469 1.00 0.00 H  
 ATOM 1388 3HB ALA A 94132.764 -3.437 7.379 1.00 0.00 H  
 ATOM 1389 N SER A 95130.685 -4.528 11.039 1.00 0.00 N  
 ATOM 1390 CA SER A 95129.707 -5.307 11.788 1.00 0.00 C  
 ATOM 1391 C SER A 95128.398 -5.422 11.015 1.00 0.00 C  
 ATOM 1392 O SER A 95127.808 -4.417 10.619 1.00 0.00 O  
 ATOM 1393 CB SER A 95129.451 -4.667 13.154 1.00 0.00 C  
 ATOM 1394 OG SER A 95130.650 -4.575 13.907 1.00 0.00 O  
 ATOM 1395 H SER A 95130.813 -3.581 11.260 1.00 0.00 H  
 ATOM 1396 HA SER A 95130.113 -6.296 11.934 1.00 0.00 H  
 ATOM 1397 1HB SER A 95129.052 -3.674 13.016 1.00 0.00 H  
 ATOM 1398 2HB SER A 95128.741 -5.267 13.702 1.00 0.00 H  
 ATOM 1399 HG SER A 95131.282 -4.029 13.435 1.00 0.00 H  
 ATOM 1400 N LEU A 96127.948 -6.655 10.802 1.00 0.00 N  
 ATOM 1401 CA LEU A 96126.707 -6.902 10.076 1.00 0.00 C  
 ATOM 1402 C LEU A 96126.785 -6.339 8.660 1.00 0.00 C  
 ATOM 1403 O LEU A 96126.357 -5.214 8.405 1.00 0.00 O  
 ATOM 1404 CB LEU A 96125.525 -6.280 10.820 1.00 0.00 C  
 ATOM 1405 CG LEU A 96124.921 -7.153 11.923 1.00 0.00 C

ATOM 1406 CD1 LEU A 96125.619 -6.895 13.249 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96123.427 -6.897 12.046 1.00 0.00 C  
 ATOM 1408 H LEU A 96128.463 -7.417 11.142 1.00 0.00 H  
 ATOM 1409 HA LEU A 96126.565 -7.971 10.020 1.00 0.00 H  
 ATOM 1410 1HB LEU A 96125.854 -5.352 11.264 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96124.750 -6.062 10.101 1.00 0.00 H  
 ATOM 1412 HG LEU A 96125.064 -8.194 11.668 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96125.088 -6.127 13.791 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96126.633 -6.572 13.066 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96125.631 -7.805 13.832 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96123.258 -6.072 12.722 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96122.940 -7.783 12.429 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96123.021 -6.656 11.075 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.334 -7.130 7.744 1.00 0.00 N  
 ATOM 1420 CA GLN A 97127.467 -6.710 6.354 1.00 0.00 C  
 ATOM 1421 C GLN A 97126.124 -6.784 5.630 1.00 0.00 C  
 ATOM 1422 O GLN A 97125.307 -7.660 5.911 1.00 0.00 O  
 ATOM 1423 CB GLN A 97128.497 -7.581 5.631 1.00 0.00 C  
 ATOM 1424 CG GLN A 97129.932 -7.129 5.841 1.00 0.00 C  
 ATOM 1425 CD GLN A 97130.938 -8.074 5.214 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97131.184 -8.028 4.009 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97131.527 -8.939 6.032 1.00 0.00 N  
 ATOM 1428 H GLN A 97127.658 -8.016 8.008 1.00 0.00 H  
 ATOM 1429 HA GLN A 97127.810 -5.686 6.350 1.00 0.00 H  
 ATOM 1430 1HB GLN A 97128.405 -8.597 5.989 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97128.287 -7.563 4.572 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97130.057 -6.152 5.400 1.00 0.00 H  
 ATOM 1433 2HG GLN A 97130.126 -7.072 6.902 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97131.282 -8.919 6.981 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97132.182 -9.563 5.653 1.00 0.00 H  
 ATOM 1436 N PRO A 98125.878 -5.862 4.683 1.00 0.00 N

ATOM 1437 CA PRO A 98124.626 -5.830 3.918 1.00 0.00 C  
 ATOM 1438 C PRO A 98124.313 -7.172 3.265 1.00 0.00 C  
 ATOM 1439 O PRO A 98125.174 -7.777 2.626 1.00 0.00 O  
 ATOM 1440 CB PRO A 98124.884 -4.764 2.851 1.00 0.00 C  
 ATOM 1441 CG PRO A 98125.933 -3.885 3.438 1.00 0.00 C  
 ATOM 1442 CD PRO A 98126.798 -4.781 4.282 1.00 0.00 C  
 ATOM 1443 HA PRO A 98123.793 -5.531 4.537 1.00 0.00 H  
 ATOM 1444 1HB PRO A 98125.226 -5.237 1.941 1.00 0.00 H  
 ATOM 1445 2HB PRO A 98123.974 -4.216 2.659 1.00 0.00 H  
 ATOM 1446 1HG PRO A 98126.518 -3.435 2.649 1.00 0.00 H  
 ATOM 1447 2HG PRO A 98125.475 -3.122 4.049 1.00 0.00 H  
 ATOM 1448 1HD PRO A 98127.620 -5.169 3.699 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98127.163 -4.246 5.145 1.00 0.00 H  
 ATOM 1450 N SER A 99123.077 -7.631 3.429 1.00 0.00 N  
 ATOM 1451 CA SER A 99122.651 -8.902 2.855 1.00 0.00 C  
 ATOM 1452 C SER A 99121.170 -9.152 3.124 1.00 0.00 C  
 ATOM 1453 O SER A 99120.759 -10.283 3.388 1.00 0.00 O  
 ATOM 1454 CB SER A 99123.487 -10.049 3.424 1.00 0.00 C  
 ATOM 1455 OG SER A 99123.019 -10.437 4.705 1.00 0.00 O  
 ATOM 1456 H SER A 99122.436 -7.103 3.950 1.00 0.00 H  
 ATOM 1457 HA SER A 99122.806 -8.851 1.787 1.00 0.00 H  
 ATOM 1458 1HB SER A 99123.427 -10.900 2.761 1.00 0.00 H  
 ATOM 1459 2HB SER A 99124.517 -9.733 3.511 1.00 0.00 H  
 ATOM 1460 HG SER A 99123.492 -11.220 4.995 1.00 0.00 H  
 ATOM 1461 N GLY A 100120.374 -8.090 3.056 1.00 0.00 N  
 ATOM 1462 CA GLY A 100118.949 -8.215 3.296 1.00 0.00 C  
 ATOM 1463 C GLY A 100118.516 -7.547 4.588 1.00 0.00 C  
 ATOM 1464 O GLY A 100119.120 -6.561 5.011 1.00 0.00 O  
 ATOM 1465 H GLY A 100120.758 -7.215 2.842 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100118.416 -7.763 2.474 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100118.693 -9.264 3.343 1.00 0.00 H

ATOM	1468	N	PRO A	101117.463	-8.065	5.244	1.00	0.00	N
ATOM	1469	CA	PRO A	101116.960	-7.501	6.501	1.00	0.00	C
ATOM	1470	C	PRO A	101117.930	-7.710	7.658	1.00	0.00	C
ATOM	1471	O	PRO A	101117.857	-8.711	8.369	1.00	0.00	O
ATOM	1472	CB	PRO A	101115.661	-8.273	6.745	1.00	0.00	C
ATOM	1473	CG	PRO A	101115.843	-9.561	6.019	1.00	0.00	C
ATOM	1474	CD	PRO A	101116.682	-9.241	4.813	1.00	0.00	C
ATOM	1475	HA	PRO A	101116.743	-6.447	6.400	1.00	0.00	H
ATOM	1476	1HB	PRO A	101115.528	-8.432	7.806	1.00	0.00	H
ATOM	1477	2HB	PRO A	101114.826	-7.713	6.352	1.00	0.00	H
ATOM	1478	1HG	PRO A	101116.352	-10.271	6.653	1.00	0.00	H
ATOM	1479	2HG	PRO A	101114.882	-9.949	5.714	1.00	0.00	H
ATOM	1480	1HD	PRO A	101117.333	-10.069	4.576	1.00	0.00	H
ATOM	1481	2HD	PRO A	101116.054	-8.997	3.970	1.00	0.00	H
ATOM	1482	N	SER A	102118.838	-6.757	7.841	1.00	0.00	N
ATOM	1483	CA	SER A	102119.823	-6.835	8.913	1.00	0.00	C
ATOM	1484	C	SER A	102119.217	-6.399	10.243	1.00	0.00	C
ATOM	1485	O	SER A	102119.222	-7.153	11.215	1.00	0.00	O
ATOM	1486	CB	SER A	102121.038	-5.967	8.582	1.00	0.00	C
ATOM	1487	OG	SER A	102122.023	-6.710	7.886	1.00	0.00	O
ATOM	1488	H	SER A	102118.846	-5.982	7.241	1.00	0.00	H
ATOM	1489	HA	SER A	102120.141	-7.864	8.996	1.00	0.00	H
ATOM	1490	1HB	SER A	102120.728	-5.138	7.964	1.00	0.00	H
ATOM	1491	2HB	SER A	102121.469	-5.591	9.499	1.00	0.00	H
ATOM	1492	HG	SER A	102122.747	-6.129	7.638	1.00	0.00	H
ATOM	1493	N	SER A	103118.697	-5.177	10.278	1.00	0.00	N
ATOM	1494	CA	SER A	103118.087	-4.640	11.488	1.00	0.00	C
ATOM	1495	C	SER A	103116.565	-4.718	11.411	1.00	0.00	C
ATOM	1496	O	SER A	103116.003	-5.040	10.365	1.00	0.00	O
ATOM	1497	CB	SER A	103118.524	-3.190	11.705	1.00	0.00	C
ATOM	1498	OG	SER A	103118.738	-2.530	10.469	1.00	0.00	O



ATOM 1499 H SER A 103118.724 -4.622 9.469 1.00 0.00 H  
 ATOM 1500 HA SER A 103118.424 -5.237 12.322 1.00 0.00 H  
 ATOM 1501 1HB SER A 103117.756 -2.662 12.251 1.00 0.00 H  
 ATOM 1502 2HB SER A 103119.444 -3.175 12.271 1.00 0.00 H  
 ATOM 1503 HG SER A 103117.894 -2.380 10.037 1.00 0.00 H  
 ATOM 1504 N GLY A 104115.906 -4.421 12.526 1.00 0.00 N  
 ATOM 1505 CA GLY A 104114.456 -4.464 12.563 1.00 0.00 C  
 ATOM 1506 C GLY A 104113.868 -3.401 13.471 1.00 0.00 C  
 ATOM 1507 O GLY A 104112.673 -3.076 13.307 1.00 0.00 O  
 ATOM 1508 OXT GLY A 104114.602 -2.895 14.345 1.00 0.00 O  
 ATOM 1509 H GLY A 104116.408 -4.171 13.329 1.00 0.00 H  
 ATOM 1510 1HA GLY A 104114.077 -4.317 11.563 1.00 0.00 H  
 ATOM 1511 2HA GLY A 104114.144 -5.435 12.916 1.00 0.00 H  
 TER 1512 GLY A 104  
 ENDMDL

#### Three-Dimensional Structure Coordinate Table 20

ATOM 1 N GLY A 1128.661 32.040 -7.283 1.00 0.00 N  
 ATOM 2 CA GLY A 1128.278 31.541 -8.634 1.00 0.00 C  
 ATOM 3 C GLY A 1128.677 30.095 -8.853 1.00 0.00 C  
 ATOM 4 O GLY A 1129.352 29.771 -9.830 1.00 0.00 O  
 ATOM 5 1H GLY A 1128.790 31.240 -6.631 1.00 0.00 H  
 ATOM 6 2H GLY A 1127.917 32.661 -6.908 1.00 0.00 H  
 ATOM 7 3H GLY A 1129.550 32.576 -7.339 1.00 0.00 H  
 ATOM 8 1HA GLY A 1127.208 31.628 -8.748 1.00 0.00 H  
 ATOM 9 2HA GLY A 1128.760 32.153 -9.381 1.00 0.00 H  
 ATOM 10 N SER A 2128.260 29.223 -7.941 1.00 0.00 N  
 ATOM 11 CA SER A 2128.578 27.804 -8.038 1.00 0.00 C  
 ATOM 12 C SER A 2127.444 27.036 -8.709 1.00 0.00 C  
 ATOM 13 O SER A 2126.367 26.872 -8.134 1.00 0.00 O  
 ATOM 14 CB SER A 2128.851 27.223 -6.648 1.00 0.00 C

ATOM15 OG SER A 2129.404 25.922 -6.738 1.00 0.00 O  
 ATOM16 H SER A 2127.726 29.543 -7.184 1.00 0.00 H  
 ATOM17 HA SER A 2129.469 27.704 -8.640 1.00 0.00 H  
 ATOM18 1HB SER A 2129.546 27.862 -6.125 1.00 0.00 H  
 ATOM19 2HB SER A 2127.925 27.171 -6.096 1.00 0.00 H  
 ATOM20 HG SER A 2128.747 25.319 -7.092 1.00 0.00 H  
 ATOM21 N SER A 3127.692 26.569 -9.927 1.00 0.00 N  
 ATOM22 CA SER A 3126.691 25.818 -10.677 1.00 0.00 C  
 ATOM23 C SER A 3127.354 24.865 -11.666 1.00 0.00 C  
 ATOM24 O SER A 3128.088 25.290 -12.557 1.00 0.00 O  
 ATOM25 CB SER A 3125.757 26.775 -11.421 1.00 0.00 C  
 ATOM26 OG SER A 3124.425 26.291 -11.422 1.00 0.00 O  
 ATOM27 H SER A 3128.569 26.732 -10.333 1.00 0.00 H  
 ATOM28 HA SER A 3126.112 25.241 -9.972 1.00 0.00 H  
 ATOM29 1HB SER A 3125.775 27.741 -10.938 1.00 0.00 H  
 ATOM30 2HB SER A 3126.092 26.879 -12.443 1.00 0.00 H  
 ATOM31 HG SER A 3124.425 25.355 -11.635 1.00 0.00 H  
 ATOM32 N GLY A 4127.089 23.572 -11.501 1.00 0.00 N  
 ATOM33 CA GLY A 4127.667 22.578 -12.387 1.00 0.00 C  
 ATOM34 C GLY A 4128.856 21.870 -11.767 1.00 0.00 C  
 ATOM35 O GLY A 4129.986 22.018 -12.232 1.00 0.00 O  
 ATOM36 H GLY A 4126.496 23.292 -10.773 1.00 0.00 H  
 ATOM37 1HA GLY A 4126.912 21.846 -12.629 1.00 0.00 H  
 ATOM38 2HA GLY A 4127.987 23.065 -13.296 1.00 0.00 H  
 ATOM39 N SER A 5128.601 21.102 -10.713 1.00 0.00 N  
 ATOM40 CA SER A 5129.658 20.368 -10.028 1.00 0.00 C  
 ATOM41 C SER A 5129.088 19.175 -9.268 1.00 0.00 C  
 ATOM42 O SER A 5128.573 19.321 -8.159 1.00 0.00 O  
 ATOM43 CB SER A 5130.405 21.292 -9.064 1.00 0.00 C  
 ATOM44 OG SER A 5131.790 20.992 -9.042 1.00 0.00 O  
 ATOM45 H SER A 5127.679 21.025 -10.389 1.00 0.00 H

ATOM46 HA SER A 5130.349 20.006 -10.775 1.00 0.00 H  
 ATOM47 1HB SER A 5130.277 22.316 -9.379 1.00 0.00 H  
 ATOM48 2HB SER A 5130.007 21.167 -8.068 1.00 0.00 H  
 ATOM49 HG SER A 5132.155 21.097 -9.923 1.00 0.00 H  
 ATOM50 N SER A 6129.183 17.994 -9.872 1.00 0.00 N  
 ATOM51 CA SER A 6128.676 16.776 -9.250 1.00 0.00 C  
 ATOM52 C SER A 6129.453 15.555 -9.733 1.00 0.00 C  
 ATOM53 O SER A 6130.044 15.570 -10.812 1.00 0.00 O  
 ATOM54 CB SER A 6127.188 16.602 -9.560 1.00 0.00 C  
 ATOM55 OG SER A 6126.446 17.739 -9.155 1.00 0.00 O  
 ATOM56 H SER A 6129.605 17.942 -10.754 1.00 0.00 H  
 ATOM57 HA SER A 6128.803 16.870 -8.183 1.00 0.00 H  
 ATOM58 1HB SER A 6127.058 16.465 -10.624 1.00 0.00 H  
 ATOM59 2HB SER A 6126.812 15.736 -9.037 1.00 0.00 H  
 ATOM60 HG SER A 6126.383 18.358 -9.886 1.00 0.00 H  
 ATOM61 N GLY A 7129.449 14.499 -8.923 1.00 0.00 N  
 ATOM62 CA GLY A 7130.157 13.284 -9.285 1.00 0.00 C  
 ATOM63 C GLY A 7129.219 12.168 -9.702 1.00 0.00 C  
 ATOM64 O GLY A 7128.072 12.417 -10.073 1.00 0.00 O  
 ATOM65 H GLY A 7128.959 14.546 -8.076 1.00 0.00 H  
 ATOM66 1HA GLY A 7130.827 13.502 -10.102 1.00 0.00 H  
 ATOM67 2HA GLY A 7130.737 12.954 -8.436 1.00 0.00 H  
 ATOM68 N LEU A 8129.709 10.933 -9.643 1.00 0.00 N  
 ATOM69 CA LEU A 8128.907 9.775 -10.020 1.00 0.00 C  
 ATOM70 C LEU A 8128.373 9.055 -8.786 1.00 0.00 C  
 ATOM71 O LEU A 8127.214 9.226 -8.408 1.00 0.00 O  
 ATOM72 CB LEU A 8129.733 8.811 -10.875 1.00 0.00 C  
 ATOM73 CG LEU A 8130.035 9.300 -12.295 1.00 0.00 C  
 ATOM74 CD1 LEU A 8131.479 9.764 -12.405 1.00 0.00 C  
 ATOM75 CD2 LEU A 8129.747 8.203 -13.310 1.00 0.00 C  
 ATOM76 H LEU A 8130.632 10.798 -9.340 1.00 0.00 H

ATOM77 HA LEU A 8128.071 10.128 -10.601 1.00 0.00 H  
 ATOM78 1HB LEU A 8130.672 8.631 -10.370 1.00 0.00 H  
 ATOM79 2HB LEU A 8129.197 7.877 -10.946 1.00 0.00 H  
 ATOM80 HG LEU A 8129.396 10.142 -12.520 1.00 0.00 H  
 ATOM81 1HD1 LEU A 8132.084 8.967 -12.811 1.00 0.00 H  
 ATOM82 2HD1 LEU A 8131.847 10.033 -11.426 1.00 0.00 H  
 ATOM83 3HD1 LEU A 8131.532 10.623 -13.057 1.00 0.00 H  
 ATOM84 1HD2 LEU A 8128.770 7.784 -13.120 1.00 0.00 H  
 ATOM85 2HD2 LEU A 8130.494 7.428 -13.224 1.00 0.00 H  
 ATOM86 3HD2 LEU A 8129.773 8.619 -14.307 1.00 0.00 H  
 ATOM87 N ALA A 9129.225 8.249 -8.164 1.00 0.00 N  
 ATOM88 CA ALA A 9128.841 7.501 -6.974 1.00 0.00 C  
 ATOM89 C ALA A 9129.972 7.479 -5.949 1.00 0.00 C  
 ATOM90 O ALA A 9130.411 6.414 -5.515 1.00 0.00 O  
 ATOM91 CB ALA A 9128.437 6.083 -7.351 1.00 0.00 C  
 ATOM92 H ALA A 9130.134 8.155 -8.515 1.00 0.00 H  
 ATOM93 HA ALA A 9127.982 7.990 -6.536 1.00 0.00 H  
 ATOM94 1HB ALA A 9127.590 5.779 -6.753 1.00 0.00 H  
 ATOM95 2HB ALA A 9129.265 5.413 -7.170 1.00 0.00 H  
 ATOM96 3HB ALA A 9128.169 6.050 -8.397 1.00 0.00 H  
 ATOM97 N MET A 10130.436 8.662 -5.564 1.00 0.00 N  
 ATOM98 CA MET A 10131.515 8.780 -4.589 1.00 0.00 C  
 ATOM99 C MET A 10131.300 9.989 -3.682 1.00 0.00 C  
 ATOM 100 O MET A 10131.896 11.046 -3.891 1.00 0.00 O  
 ATOM 101 CB MET A 10132.865 8.894 -5.300 1.00 0.00 C  
 ATOM 102 CG MET A 10133.150 7.745 -6.251 1.00 0.00 C  
 ATOM 103 SD MET A 10132.756 8.146 -7.965 1.00 0.00 S  
 ATOM 104 CE MET A 10132.516 6.510 -8.649 1.00 0.00 C  
 ATOM 105 H MET A 10130.045 9.477 -5.944 1.00 0.00 H  
 ATOM 106 HA MET A 10131.511 7.885 -3.984 1.00 0.00 H  
 ATOM 107 1HB MET A 10132.884 9.814 -5.863 1.00 0.00 H

ATOM	108	2HB	MET A	10133.647	8.922	-4.556	1.00	0.00	H
ATOM	109	1HG	MET A	10134.199	7.495	-6.189	1.00	0.00	H
ATOM	110	2HG	MET A	10132.561	6.891	-5.952	1.00	0.00	H
ATOM	111	1HE	MET A	10132.646	5.771	-7.871	1.00	0.00	H
ATOM	112	2HE	MET A	10133.238	6.337	-9.434	1.00	0.00	H
ATOM	113	3HE	MET A	10131.518	6.432	-9.055	1.00	0.00	H
ATOM	114	N	PRO A	11130.443	9.848	-2.657	1.00	0.00	N
ATOM	115	CA	PRO A	11130.153	10.934	-1.716	1.00	0.00	C
ATOM	116	C	PRO A	11131.417	11.515	-1.082	1.00	0.00	C
ATOM	117	O	PRO A	11131.571	12.734	-1.000	1.00	0.00	O
ATOM	118	CB	PRO A	11129.275	10.269	-0.652	1.00	0.00	C
ATOM	119	CG	PRO A	11128.670	9.092	-1.338	1.00	0.00	C
ATOM	120	CD	PRO A	11129.690	8.622	-2.334	1.00	0.00	C
ATOM	121	HA	PRO A	11129.600	11.730	-2.194	1.00	0.00	H
ATOM	122	1HB	PRO A	11129.885	9.969	0.187	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.517	10.964	-0.322	1.00	0.00	H
ATOM	124	1HG	PRO A	11128.463	8.314	-0.617	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.762	9.388	-1.842	1.00	0.00	H
ATOM	126	1HD	PRO A	11130.338	7.879	-1.891	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.205	8.225	-3.214	1.00	0.00	H
ATOM	128	N	PRO A	12132.345	10.653	-0.619	1.00	0.00	N
ATOM	129	CA	PRO A	12133.588	11.103	0.006	1.00	0.00	C
ATOM	130	C	PRO A	12134.652	11.478	-1.020	1.00	0.00	C
ATOM	131	O	PRO A	12135.521	12.308	-0.753	1.00	0.00	O
ATOM	132	CB	PRO A	12134.024	9.881	0.809	1.00	0.00	C
ATOM	133	CG	PRO A	12133.519	8.717	0.026	1.00	0.00	C
ATOM	134	CD	PRO A	12132.259	9.179	-0.666	1.00	0.00	C
ATOM	135	HA	PRO A	12133.420	11.935	0.673	1.00	0.00	H
ATOM	136	1HB	PRO A	12135.102	9.866	0.892	1.00	0.00	H
ATOM	137	2HB	PRO A	12133.582	9.915	1.793	1.00	0.00	H
ATOM	138	1HG	PRO A	12134.257	8.421	-0.704	1.00	0.00	H

ATOM	139	2HG	PRO A	12133.300	7.896	0.692	1.00	0.00	H
ATOM	140	1HD	PRO A	12132.244	8.827	-1.687	1.00	0.00	H
ATOM	141	2HD	PRO A	12131.389	8.826	-0.133	1.00	0.00	H
ATOM	142	N	GLY A	13134.578	10.860	-2.194	1.00	0.00	N
ATOM	143	CA	GLY A	13135.540	11.141	-3.243	1.00	0.00	C
ATOM	144	C	GLY A	13136.372	9.926	-3.606	1.00	0.00	C
ATOM	145	O	GLY A	13136.823	9.792	-4.744	1.00	0.00	O
ATOM	146	H	GLY A	13133.864	10.207	-2.350	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.011	11.477	-4.122	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.201	11.929	-2.911	1.00	0.00	H
ATOM	149	N	ASN A	14136.576	9.041	-2.637	1.00	0.00	N
ATOM	150	CA	ASN A	14137.359	7.831	-2.859	1.00	0.00	C
ATOM	151	C	ASN A	14136.448	6.622	-3.052	1.00	0.00	C
ATOM	152	O	ASN A	14136.504	5.949	-4.081	1.00	0.00	O
ATOM	153	CB	ASN A	14138.306	7.588	-1.683	1.00	0.00	C
ATOM	154	CG	ASN A	14139.254	8.748	-1.453	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.787	9.325	-2.401	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.469	9.095	-0.190	1.00	0.00	N
ATOM	157	H	ASN A	14136.190	9.205	-1.751	1.00	0.00	H
ATOM	158	HA	ASN A	14137.943	7.973	-3.756	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.724	7.440	-0.785	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.890	6.700	-1.878	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.010	8.591	0.514	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.078	9.844	-0.013	1.00	0.00	H
ATOM	163	N	SER A	15135.610	6.354	-2.056	1.00	0.00	N
ATOM	164	CA	SER A	15134.688	5.227	-2.115	1.00	0.00	C
ATOM	165	C	SER A	15133.686	5.283	-0.966	1.00	0.00	C
ATOM	166	O	SER A	15132.477	5.196	-1.179	1.00	0.00	O
ATOM	167	CB	SER A	15135.459	3.906	-2.071	1.00	0.00	C
ATOM	168	OG	SER A	15136.078	3.719	-0.811	1.00	0.00	O
ATOM	169	H	SER A	15135.614	6.927	-1.261	1.00	0.00	H

ATOM	170	HA	SER A	15134.149	5.288	-3.050	1.00	0.00	H
ATOM	171	1HB	SER A	15134.777	3.087	-2.248	1.00	0.00	H
ATOM	172	2HB	SER A	15136.221	3.911	-2.837	1.00	0.00	H
ATOM	173	HG	SER A	15136.885	4.237	-0.771	1.00	0.00	H
ATOM	174	N	HIS A	16134.199	5.429	0.251	1.00	0.00	N
ATOM	175	CA	HIS A	16133.350	5.499	1.435	1.00	0.00	C
ATOM	176	C	HIS A	16134.106	6.106	2.612	1.00	0.00	C
ATOM	177	O	HIS A	16133.587	6.974	3.314	1.00	0.00	O
ATOM	178	CB	HIS A	16132.842	4.104	1.805	1.00	0.00	C
ATOM	179	CG	HIS A	16131.526	3.761	1.180	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.458	4.633	1.148	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.106	2.634	0.558	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.439	4.057	0.535	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.807	2.844	0.167	1.00	0.00	N
ATOM	184	H	HIS A	16135.171	5.494	0.356	1.00	0.00	H
ATOM	185	HA	HIS A	16132.506	6.129	1.200	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.563	3.368	1.482	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.728	4.043	2.878	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.447	5.540	1.520	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.686	1.736	0.400	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.470	4.503	0.363	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.216	2.171	-0.230	1.00	0.00	H
ATOM	192	N	GLY A	17135.334	5.644	2.821	1.00	0.00	N
ATOM	193	CA	GLY A	17136.141	6.153	3.915	1.00	0.00	C
ATOM	194	C	GLY A	17137.524	5.533	3.954	1.00	0.00	C
ATOM	195	O	GLY A	17138.061	5.264	5.029	1.00	0.00	O
ATOM	196	H	GLY A	17135.695	4.952	2.230	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.242	7.223	3.806	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.638	5.944	4.847	1.00	0.00	H
ATOM	199	N	LEU A	18138.101	5.304	2.779	1.00	0.00	N
ATOM	200	CA	LEU A	18139.430	4.711	2.683	1.00	0.00	C

ATOM	201	C	LEU A	18140.509	5.741	3.000	1.00	0.00	C
ATOM	202	O	LEU A	18140.848	6.578	2.164	1.00	0.00	O
ATOM	203	CB	LEU A	18139.654	4.136	1.283	1.00	0.00	C
ATOM	204	CG	LEU A	18138.875	2.856	0.976	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.211	2.347	-0.417	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.171	1.789	2.022	1.00	0.00	C
ATOM	207	H	LEU A	18137.622	5.539	1.957	1.00	0.00	H
ATOM	208	HA	LEU A	18139.488	3.910	3.404	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.372	4.887	0.559	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.707	3.926	1.167	1.00	0.00	H
ATOM	211	HG	LEU A	18137.817	3.070	1.007	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.646	1.449	-0.619	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.267	2.128	-0.475	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.960	3.103	-1.147	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.386	1.786	2.764	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.116	2.005	2.498	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.220	0.822	1.546	1.00	0.00	H
ATOM	218	N	GLU A	19141.047	5.671	4.214	1.00	0.00	N
ATOM	219	CA	GLU A	19142.088	6.596	4.642	1.00	0.00	C
ATOM	220	C	GLU A	19143.094	5.900	5.555	1.00	0.00	C
ATOM	221	O	GLU A	19142.957	4.714	5.854	1.00	0.00	O
ATOM	222	CB	GLU A	19141.470	7.794	5.366	1.00	0.00	C
ATOM	223	CG	GLU A	19140.642	7.409	6.580	1.00	0.00	C
ATOM	224	CD	GLU A	19140.833	8.365	7.743	1.00	0.00	C
ATOM	225	OE1	GLU A	19141.267	7.909	8.821	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.549	9.569	7.573	1.00	0.00	O
ATOM	227	H	GLU A	19140.736	4.981	4.836	1.00	0.00	H
ATOM	228	HA	GLU A	19142.604	6.947	3.760	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.262	8.453	5.690	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.831	8.327	4.676	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.599	7.408	6.304	1.00	0.00	H



ATOM	232	2HG	GLU	A	19140.931	6.418	6.898	1.00	0.00	H
ATOM	233	N	VAL	A	20144.102	6.646	5.995	1.00	0.00	N
ATOM	234	CA	VAL	A	20145.129	6.100	6.874	1.00	0.00	C
ATOM	235	C	VAL	A	20144.519	5.574	8.170	1.00	0.00	C
ATOM	236	O	VAL	A	20143.713	6.251	8.807	1.00	0.00	O
ATOM	237	CB	VAL	A	20146.198	7.156	7.214	1.00	0.00	C
ATOM	238	CG1	VAL	A	20147.345	6.528	7.991	1.00	0.00	C
ATOM	239	CG2	VAL	A	20146.707	7.827	5.947	1.00	0.00	C
ATOM	240	H	VAL	A	20144.157	7.586	5.722	1.00	0.00	H
ATOM	241	HA	VAL	A	20145.611	5.283	6.356	1.00	0.00	H
ATOM	242	HB	VAL	A	20145.743	7.912	7.837	1.00	0.00	H
ATOM	243	1HG1	VAL	A	20148.196	7.193	7.978	1.00	0.00	H
ATOM	244	2HG1	VAL	A	20147.616	5.587	7.534	1.00	0.00	H
ATOM	245	3HG1	VAL	A	20147.037	6.357	9.012	1.00	0.00	H
ATOM	246	1HG2	VAL	A	20146.826	7.086	5.170	1.00	0.00	H
ATOM	247	2HG2	VAL	A	20147.658	8.296	6.146	1.00	0.00	H
ATOM	248	3HG2	VAL	A	20145.997	8.574	5.625	1.00	0.00	H
ATOM	249	N	GLY	A	21144.909	4.361	8.551	1.00	0.00	N
ATOM	250	CA	GLY	A	21144.389	3.766	9.768	1.00	0.00	C
ATOM	251	C	GLY	A	21143.355	2.692	9.492	1.00	0.00	C
ATOM	252	O	GLY	A	21143.267	1.704	10.221	1.00	0.00	O
ATOM	253	H	GLY	A	21145.553	3.868	8.002	1.00	0.00	H
ATOM	254	1HA	GLY	A	21145.209	3.327	10.319	1.00	0.00	H
ATOM	255	2HA	GLY	A	21143.937	4.539	10.371	1.00	0.00	H
ATOM	256	N	SER	A	22142.573	2.885	8.436	1.00	0.00	N
ATOM	257	CA	SER	A	22141.539	1.927	8.063	1.00	0.00	C
ATOM	258	C	SER	A	22142.075	0.916	7.054	1.00	0.00	C
ATOM	259	O	SER	A	22142.823	1.271	6.144	1.00	0.00	O
ATOM	260	CB	SER	A	22140.325	2.654	7.480	1.00	0.00	C
ATOM	261	OG	SER	A	22139.898	3.701	8.333	1.00	0.00	O
ATOM	262	H	SER	A	22142.693	3.692	7.893	1.00	0.00	H

ATOM	263	HA	SER A	22141.238	1.401	8.956	1.00	0.00	H
ATOM	264	1HB	SER A	22140.587	3.073	6.520	1.00	0.00	H
ATOM	265	2HB	SER A	22139.513	1.952	7.357	1.00	0.00	H
ATOM	266	HG	SER A	22139.126	4.127	7.955	1.00	0.00	H
ATOM	267	N	LEU A	23141.687	-0.344	7.223	1.00	0.00	N
ATOM	268	CA	LEU A	23142.130	-1.405	6.328	1.00	0.00	C
ATOM	269	C	LEU A	23141.531	-1.230	4.935	1.00	0.00	C
ATOM	270	O	LEU A	23140.386	-0.801	4.790	1.00	0.00	O
ATOM	271	CB	LEU A	23141.744	-2.772	6.895	1.00	0.00	C
ATOM	272	CG	LEU A	23142.431	-3.144	8.208	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.538	-4.048	9.042	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.770	-3.816	7.937	1.00	0.00	C
ATOM	275	H	LEU A	23141.090	-0.565	7.970	1.00	0.00	H
ATOM	276	HA	LEU A	23143.205	-1.347	6.253	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.676	-2.783	7.054	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.989	-3.525	6.161	1.00	0.00	H
ATOM	279	HG	LEU A	23142.617	-2.244	8.774	1.00	0.00	H
ATOM	280	1HD1	LEU A	23142.041	-4.300	9.963	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.325	-4.952	8.489	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.614	-3.536	9.264	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.461	-3.574	8.731	1.00	0.00	H
ATOM	284	2HD2	LEU A	23144.165	-3.463	6.996	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.633	-4.886	7.891	1.00	0.00	H
ATOM	286	N	ALA A	24142.313	-1.568	3.915	1.00	0.00	N
ATOM	287	CA	ALA A	24141.861	-1.450	2.534	1.00	0.00	C
ATOM	288	C	ALA A	24142.403	-2.592	1.681	1.00	0.00	C
ATOM	289	O	ALA A	24143.501	-3.093	1.922	1.00	0.00	O
ATOM	290	CB	ALA A	24142.284	-0.109	1.953	1.00	0.00	C
ATOM	291	H	ALA A	24143.215	-1.905	4.095	1.00	0.00	H
ATOM	292	HA	ALA A	24140.782	-1.492	2.531	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.454	-0.213	0.892	1.00	0.00	H

ATOM	294	2HB	ALA	A	24143.195	0.220	2.433	1.00	0.00	H
ATOM	295	3HB	ALA	A	24141.506	0.620	2.123	1.00	0.00	H
ATOM	296	N	GLU	A	25141.625	-3.000	0.683	1.00	0.00	N
ATOM	297	CA	GLU	A	25142.027	-4.085	-0.206	1.00	0.00	C
ATOM	298	C	GLU	A	25142.292	-3.564	-1.615	1.00	0.00	C
ATOM	299	O	GLU	A	25141.654	-2.613	-2.065	1.00	0.00	O
ATOM	300	CB	GLU	A	25140.948	-5.169	-0.244	1.00	0.00	C
ATOM	301	CG	GLU	A	25141.402	-6.455	-0.914	1.00	0.00	C
ATOM	302	CD	GLU	A	25140.293	-7.124	-1.702	1.00	0.00	C
ATOM	303	OE1	GLU	A	25140.310	-8.368	-1.813	1.00	0.00	O
ATOM	304	OE2	GLU	A	25139.406	-6.404	-2.207	1.00	0.00	O
ATOM	305	H	GLU	A	25140.760	-2.562	0.541	1.00	0.00	H
ATOM	306	HA	GLU	A	25142.939	-4.511	0.184	1.00	0.00	H
ATOM	307	1HB	GLU	A	25140.651	-5.400	0.768	1.00	0.00	H
ATOM	308	2HB	GLU	A	25140.093	-4.789	-0.783	1.00	0.00	H
ATOM	309	1HG	GLU	A	25142.214	-6.228	-1.587	1.00	0.00	H
ATOM	310	2HG	GLU	A	25141.747	-7.140	-0.153	1.00	0.00	H
ATOM	311	N	VAL	A	26143.237	-4.195	-2.305	1.00	0.00	N
ATOM	312	CA	VAL	A	26143.585	-3.794	-3.663	1.00	0.00	C
ATOM	313	C	VAL	A	26143.070	-4.804	-4.682	1.00	0.00	C
ATOM	314	O	VAL	A	26142.814	-5.962	-4.350	1.00	0.00	O
ATOM	315	CB	VAL	A	26145.109	-3.645	-3.830	1.00	0.00	C
ATOM	316	CG1	VAL	A	26145.442	-3.046	-5.188	1.00	0.00	C
ATOM	317	CG2	VAL	A	26145.689	-2.798	-2.708	1.00	0.00	C
ATOM	318	H	VAL	A	26143.710	-4.945	-1.892	1.00	0.00	H
ATOM	319	HA	VAL	A	26143.128	-2.835	-3.857	1.00	0.00	H
ATOM	320	HB	VAL	A	26145.555	-4.628	-3.777	1.00	0.00	H
ATOM	321	1HG1	VAL	A	26145.206	-3.759	-5.964	1.00	0.00	H
ATOM	322	2HG1	VAL	A	26146.495	-2.806	-5.227	1.00	0.00	H
ATOM	323	3HG1	VAL	A	26144.862	-2.146	-5.337	1.00	0.00	H
ATOM	324	1HG2	VAL	A	26146.698	-2.506	-2.962	1.00	0.00	H

ATOM	325	2HG2	VAL	A	26145.699	-3.371	-1.793	1.00	0.00	H
ATOM	326	3HG2	VAL	A	26145.082	-1.915	-2.574	1.00	0.00	H
ATOM	327	N	LYS	A	27142.921	-4.358	-5.925	1.00	0.00	N
ATOM	328	CA	LYS	A	27142.436	-5.222	-6.995	1.00	0.00	C
ATOM	329	C	LYS	A	27143.592	-5.717	-7.860	1.00	0.00	C
ATOM	330	O	LYS	A	27143.792	-5.240	-8.978	1.00	0.00	O
ATOM	331	CB	LYS	A	27141.416	-4.478	-7.859	1.00	0.00	C
ATOM	332	CG	LYS	A	27140.325	-5.376	-8.419	1.00	0.00	C
ATOM	333	CD	LYS	A	27139.217	-4.565	-9.072	1.00	0.00	C
ATOM	334	CE	LYS	A	27138.418	-5.404	-10.055	1.00	0.00	C
ATOM	335	NZ	LYS	A	27137.175	-5.947	-9.440	1.00	0.00	N
ATOM	336	H	LYS	A	27143.141	-3.425	-6.128	1.00	0.00	H
ATOM	337	HA	LYS	A	27141.954	-6.075	-6.539	1.00	0.00	H
ATOM	338	1HB	LYS	A	27140.949	-3.709	-7.262	1.00	0.00	H
ATOM	339	2HB	LYS	A	27141.933	-4.016	-8.687	1.00	0.00	H
ATOM	340	1HG	LYS	A	27140.757	-6.035	-9.158	1.00	0.00	H
ATOM	341	2HG	LYS	A	27139.904	-5.960	-7.615	1.00	0.00	H
ATOM	342	1HD	LYS	A	27138.552	-4.197	-8.304	1.00	0.00	H
ATOM	343	2HD	LYS	A	27139.658	-3.730	-9.599	1.00	0.00	H
ATOM	344	1HE	LYS	A	27138.150	-4.788	-10.901	1.00	0.00	H
ATOM	345	2HE	LYS	A	27139.033	-6.226	-10.391	1.00	0.00	H
ATOM	346	1HZ	LYS	A	27136.546	-5.168	-9.158	1.00	0.00	H
ATOM	347	2HZ	LYS	A	27137.409	-6.510	-8.598	1.00	0.00	H
ATOM	348	3HZ	LYS	A	27136.675	-6.553	-10.121	1.00	0.00	H
ATOM	349	N	GLU	A	28144.348	-6.675	-7.336	1.00	0.00	N
ATOM	350	CA	GLU	A	28145.485	-7.234	-8.060	1.00	0.00	C
ATOM	351	C	GLU	A	28145.308	-8.734	-8.273	1.00	0.00	C
ATOM	352	O	GLU	A	28144.236	-9.284	-8.024	1.00	0.00	O
ATOM	353	CB	GLU	A	28146.784	-6.962	-7.298	1.00	0.00	C
ATOM	354	CG	GLU	A	28147.894	-6.398	-8.170	1.00	0.00	C
ATOM	355	CD	GLU	A	28149.273	-6.814	-7.700	1.00	0.00	C

ATOM	356	OE1	GLU	A	28149.701	-7.939	-8.037	1.00	0.00	O
ATOM	357	OE2	GLU	A	28149.927	-6.017	-6.996	1.00	0.00	O
ATOM	358	H	GLU	A	28144.139	-7.014	-6.441	1.00	0.00	H
ATOM	359	HA	GLU	A	28145.535	-6.750	-9.023	1.00	0.00	H
ATOM	360	1HB	GLU	A	28146.583	-6.256	-6.507	1.00	0.00	H
ATOM	361	2HB	GLU	A	28147.134	-7.887	-6.862	1.00	0.00	H
ATOM	362	1HG	GLU	A	28147.754	-6.750	-9.181	1.00	0.00	H
ATOM	363	2HG	GLU	A	28147.834	-5.320	-8.153	1.00	0.00	H
ATOM	364	N	ASN	A	29146.368	-9.390	-8.733	1.00	0.00	N
ATOM	365	CA	ASN	A	29146.330	-10.827	-8.978	1.00	0.00	C
ATOM	366	C	ASN	A	29146.383	-11.602	-7.664	1.00	0.00	C
ATOM	367	O	ASN	A	29145.481	-12.382	-7.356	1.00	0.00	O
ATOM	368	CB	ASN	A	29147.492	-11.244	-9.881	1.00	0.00	C
ATOM	369	CG	ASN	A	29147.075	-11.385	-11.332	1.00	0.00	C
ATOM	370	OD1	ASN	A	29147.152	-12.470	-11.908	1.00	0.00	O
ATOM	371	ND2	ASN	A	29146.632	-10.286	-11.930	1.00	0.00	N
ATOM	372	H	ASN	A	29147.195	-8.896	-8.912	1.00	0.00	H
ATOM	373	HA	ASN	A	29145.399	-11.052	-9.477	1.00	0.00	H
ATOM	374	1HB	ASN	A	29148.272	-10.498	-9.822	1.00	0.00	H
ATOM	375	2HB	ASN	A	29147.882	-12.193	-9.542	1.00	0.00	H
ATOM	376	1HD2	ASN	A	29146.599	-9.457	-11.409	1.00	0.00	H
ATOM	377	2HD2	ASN	A	29146.356	-10.349	-12.868	1.00	0.00	H
ATOM	378	N	PRO	A	30147.447	-11.398	-6.867	1.00	0.00	N
ATOM	379	CA	PRO	A	30147.615	-12.080	-5.582	1.00	0.00	C
ATOM	380	C	PRO	A	30146.774	-11.446	-4.474	1.00	0.00	C
ATOM	381	O	PRO	A	30147.040	-10.320	-4.053	1.00	0.00	O
ATOM	382	CB	PRO	A	30149.102	-11.897	-5.291	1.00	0.00	C
ATOM	383	CG	PRO	A	30149.451	-10.601	-5.938	1.00	0.00	C
ATOM	384	CD	PRO	A	30148.571	-10.485	-7.157	1.00	0.00	C
ATOM	385	HA	PRO	A	30147.386	-13.132	-5.657	1.00	0.00	H
ATOM	386	1HB	PRO	A	30149.263	-11.865	-4.223	1.00	0.00	H

ATOM	387	2HB	PRO A	30149.660	-12.715	-5.722	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.254	-9.787	-5.256	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.491	-10.604	-6.227	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.221	-9.470	-7.272	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.106	-10.802	-8.038	1.00	0.00	H
ATOM	392	N	PRO A	31145.743	-12.160	-3.985	1.00	0.00	N
ATOM	393	CA	PRO A	31144.867	-11.651	-2.922	1.00	0.00	C
ATOM	394	C	PRO A	31145.631	-11.361	-1.634	1.00	0.00	C
ATOM	395	O	PRO A	31145.878	-12.261	-0.831	1.00	0.00	O
ATOM	396	CB	PRO A	31143.861	-12.788	-2.699	1.00	0.00	C
ATOM	397	CG	PRO A	31143.932	-13.617	-3.935	1.00	0.00	C
ATOM	398	CD	PRO A	31145.346	-13.508	-4.423	1.00	0.00	C
ATOM	399	HA	PRO A	31144.345	-10.759	-3.236	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.145	-13.356	-1.825	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.874	-12.374	-2.559	1.00	0.00	H
ATOM	402	1HG	PRO A	31143.693	-14.645	-3.702	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.248	-13.232	-4.677	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.965	-14.263	-3.962	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.383	-13.591	-5.499	1.00	0.00	H
ATOM	406	N	PHE A	32146.003	-10.099	-1.443	1.00	0.00	N
ATOM	407	CA	PHE A	32146.739	-9.692	-0.251	1.00	0.00	C
ATOM	408	C	PHE A	32145.957	-8.649	0.541	1.00	0.00	C
ATOM	409	O	PHE A	32145.177	-7.882	-0.023	1.00	0.00	O
ATOM	410	CB	PHE A	32148.111	-9.133	-0.638	1.00	0.00	C
ATOM	411	CG	PHE A	32148.053	-8.094	-1.721	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.601	-8.346	-2.969	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.452	-6.868	-1.492	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.550	-7.391	-3.967	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.398	-5.910	-2.486	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.948	-6.173	-3.726	1.00	0.00	C
ATOM	417	H	PHE A	32145.778	-9.427	-2.119	1.00	0.00	H

ATOM	418	HA	PHE	A	32146.878	-10.566	0.367	1.00	0.00	H
ATOM	419	1HB	PHE	A	32148.565	-8.682	0.231	1.00	0.00	H
ATOM	420	2HB	PHE	A	32148.735	-9.944	-0.985	1.00	0.00	H
ATOM	421	HD1	PHE	A	32149.071	-9.298	-3.159	1.00	0.00	H
ATOM	422	HD2	PHE	A	32147.022	-6.661	-0.523	1.00	0.00	H
ATOM	423	HE1	PHE	A	32148.981	-7.600	-4.936	1.00	0.00	H
ATOM	424	HE2	PHE	A	32146.927	-4.957	-2.295	1.00	0.00	H
ATOM	425	HZ	PHE	A	32147.907	-5.425	-4.505	1.00	0.00	H
ATOM	426	N	TYR	A	33146.172	-8.627	1.852	1.00	0.00	N
ATOM	427	CA	TYR	A	33145.487	-7.678	2.724	1.00	0.00	C
ATOM	428	C	TYR	A	33146.483	-6.735	3.392	1.00	0.00	C
ATOM	429	O	TYR	A	33147.663	-7.058	3.527	1.00	0.00	O
ATOM	430	CB	TYR	A	33144.680	-8.423	3.788	1.00	0.00	C
ATOM	431	CG	TYR	A	33143.321	-8.881	3.308	1.00	0.00	C
ATOM	432	CD1	TYR	A	33142.445	-7.995	2.695	1.00	0.00	C
ATOM	433	CD2	TYR	A	33142.916	-10.200	3.468	1.00	0.00	C
ATOM	434	CE1	TYR	A	33141.203	-8.410	2.254	1.00	0.00	C
ATOM	435	CE2	TYR	A	33141.675	-10.623	3.030	1.00	0.00	C
ATOM	436	CZ	TYR	A	33140.822	-9.724	2.425	1.00	0.00	C
ATOM	437	OH	TYR	A	33139.587	-10.141	1.987	1.00	0.00	O
ATOM	438	H	TYR	A	33146.805	-9.264	2.244	1.00	0.00	H
ATOM	439	HA	TYR	A	33144.813	-7.096	2.115	1.00	0.00	H
ATOM	440	1HB	TYR	A	33145.231	-9.295	4.104	1.00	0.00	H
ATOM	441	2HB	TYR	A	33144.530	-7.771	4.638	1.00	0.00	H
ATOM	442	HD1	TYR	A	33142.745	-6.966	2.563	1.00	0.00	H
ATOM	443	HD2	TYR	A	33143.585	-10.901	3.944	1.00	0.00	H
ATOM	444	HE1	TYR	A	33140.535	-7.706	1.780	1.00	0.00	H
ATOM	445	HE2	TYR	A	33141.378	-11.653	3.163	1.00	0.00	H
ATOM	446	HH	TYR	A	33138.915	-9.527	2.291	1.00	0.00	H
ATOM	447	N	GLY	A	34146.000	-5.569	3.806	1.00	0.00	N
ATOM	448	CA	GLY	A	34146.860	-4.597	4.454	1.00	0.00	C

ATOM	449	C	GLY A	34146.089	-3.403	4.982	1.00	0.00	C
ATOM	450	O	GLY A	34144.865	-3.346	4.867	1.00	0.00	O
ATOM	451	H	GLY A	34145.050	-5.367	3.670	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.369	-5.075	5.278	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.594	-4.251	3.743	1.00	0.00	H
ATOM	454	N	VAL A	35146.806	-2.446	5.563	1.00	0.00	N
ATOM	455	CA	VAL A	35146.181	-1.248	6.109	1.00	0.00	C
ATOM	456	C	VAL A	35146.793	0.013	5.508	1.00	0.00	C
ATOM	457	O	VAL A	35147.996	0.070	5.250	1.00	0.00	O
ATOM	458	CB	VAL A	35146.314	-1.196	7.645	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.778	-1.180	8.059	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.577	0.012	8.206	1.00	0.00	C
ATOM	461	H	VAL A	35147.779	-2.549	5.624	1.00	0.00	H
ATOM	462	HA	VAL A	35145.131	-1.278	5.861	1.00	0.00	H
ATOM	463	HB	VAL A	35145.860	-2.086	8.054	1.00	0.00	H
ATOM	464	1HG1	VAL A	35148.066	-2.162	8.404	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.920	-0.463	8.855	1.00	0.00	H
ATOM	466	3HG1	VAL A	35148.389	-0.902	7.213	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.215	-0.216	9.197	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.744	0.256	7.564	1.00	0.00	H
ATOM	469	3HG2	VAL A	35146.252	0.854	8.255	1.00	0.00	H
ATOM	470	N	ILE A	36145.957	1.023	5.287	1.00	0.00	N
ATOM	471	CA	ILE A	36146.417	2.284	4.717	1.00	0.00	C
ATOM	472	C	ILE A	36147.383	2.991	5.660	1.00	0.00	C
ATOM	473	O	ILE A	36147.192	2.989	6.877	1.00	0.00	O
ATOM	474	CB	ILE A	36145.237	3.227	4.404	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.177	2.498	3.576	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.730	4.467	3.673	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.978	3.357	3.239	1.00	0.00	C
ATOM	478	H	ILE A	36145.010	0.918	5.514	1.00	0.00	H
ATOM	479	HA	ILE A	36146.929	2.063	3.791	1.00	0.00	H



ATOM	480	HB	ILE	A	36144.800	3.541	5.340	1.00	0.00	H
ATOM	481	1HG1	ILE	A	36144.619	2.169	2.647	1.00	0.00	H
ATOM	482	2HG1	ILE	A	36143.826	1.638	4.126	1.00	0.00	H
ATOM	483	1HG2	ILE	A	36145.006	4.756	2.925	1.00	0.00	H
ATOM	484	2HG2	ILE	A	36146.675	4.252	3.195	1.00	0.00	H
ATOM	485	3HG2	ILE	A	36145.859	5.274	4.379	1.00	0.00	H
ATOM	486	1HD1	ILE	A	36142.825	3.361	2.170	1.00	0.00	H
ATOM	487	2HD1	ILE	A	36143.151	4.367	3.582	1.00	0.00	H
ATOM	488	3HD1	ILE	A	36142.100	2.957	3.726	1.00	0.00	H
ATOM	489	N	ARG	A	37148.422	3.594	5.092	1.00	0.00	N
ATOM	490	CA	ARG	A	37149.419	4.306	5.884	1.00	0.00	C
ATOM	491	C	ARG	A	37149.600	5.734	5.378	1.00	0.00	C
ATOM	492	O	ARG	A	37149.315	6.696	6.093	1.00	0.00	O
ATOM	493	CB	ARG	A	37150.757	3.565	5.841	1.00	0.00	C
ATOM	494	CG	ARG	A	37150.628	2.064	6.040	1.00	0.00	C
ATOM	495	CD	ARG	A	37150.143	1.726	7.441	1.00	0.00	C
ATOM	496	NE	ARG	A	37150.984	2.329	8.471	1.00	0.00	N
ATOM	497	CZ	ARG	A	37150.601	2.499	9.735	1.00	0.00	C
ATOM	498	NH1	ARG	A	37149.394	2.110	10.129	1.00	0.00	N
ATOM	499	NH2	ARG	A	37151.427	3.058	10.608	1.00	0.00	N
ATOM	500	H	ARG	A	37148.520	3.561	4.118	1.00	0.00	H
ATOM	501	HA	ARG	A	37149.069	4.340	6.905	1.00	0.00	H
ATOM	502	1HB	ARG	A	37151.224	3.742	4.884	1.00	0.00	H
ATOM	503	2HB	ARG	A	37151.396	3.955	6.620	1.00	0.00	H
ATOM	504	1HG	ARG	A	37149.922	1.675	5.323	1.00	0.00	H
ATOM	505	2HG	ARG	A	37151.594	1.605	5.883	1.00	0.00	H
ATOM	506	1HD	ARG	A	37149.133	2.090	7.555	1.00	0.00	H
ATOM	507	2HD	ARG	A	37150.153	0.653	7.563	1.00	0.00	H
ATOM	508	HE	ARG	A	37151.881	2.624	8.209	1.00	0.00	H
ATOM	509	1HH1	ARG	A	37148.767	1.687	9.476	1.00	0.00	H
ATOM	510	2HH1	ARG	A	37149.113	2.240	11.079	1.00	0.00	H

ATOM	511	1HH2	ARG	A	37152.338	3.353	10.317	1.00	0.00	H
ATOM	512	2HH2	ARG	A	37151.140	3.187	11.558	1.00	0.00	H
ATOM	513	N	TRP	A	38150.072	5.866	4.142	1.00	0.00	N
ATOM	514	CA	TRP	A	38150.288	7.178	3.544	1.00	0.00	C
ATOM	515	C	TRP	A	38149.492	7.328	2.251	1.00	0.00	C
ATOM	516	O	TRP	A	38149.509	6.447	1.392	1.00	0.00	O
ATOM	517	CB	TRP	A	38151.780	7.399	3.270	1.00	0.00	C
ATOM	518	CG	TRP	A	38152.063	8.608	2.427	1.00	0.00	C
ATOM	519	CD1	TRP	A	38152.324	9.874	2.866	1.00	0.00	C
ATOM	520	CD2	TRP	A	38152.107	8.664	0.996	1.00	0.00	C
ATOM	521	NE1	TRP	A	38152.526	10.713	1.797	1.00	0.00	N
ATOM	522	CE2	TRP	A	38152.399	9.993	0.638	1.00	0.00	C
ATOM	523	CE3	TRP	A	38151.928	7.718	-0.018	1.00	0.00	C
ATOM	524	CZ2	TRP	A	38152.516	10.399	-0.691	1.00	0.00	C
ATOM	525	CZ3	TRP	A	38152.045	8.121	-1.335	1.00	0.00	C
ATOM	526	CH2	TRP	A	38152.336	9.450	-1.661	1.00	0.00	C
ATOM	527	H	TRP	A	38150.280	5.062	3.622	1.00	0.00	H
ATOM	528	HA	TRP	A	38149.949	7.922	4.248	1.00	0.00	H
ATOM	529	1HB	TRP	A	38152.298	7.522	4.209	1.00	0.00	H
ATOM	530	2HB	TRP	A	38152.176	6.534	2.757	1.00	0.00	H
ATOM	531	HD1	TRP	A	38152.360	10.161	3.907	1.00	0.00	H
ATOM	532	HE1	TRP	A	38152.730	11.670	1.855	1.00	0.00	H
ATOM	533	HE3	TRP	A	38151.702	6.688	0.214	1.00	0.00	H
ATOM	534	HZ2	TRP	A	38152.738	11.420	-0.959	1.00	0.00	H
ATOM	535	HZ3	TRP	A	38151.910	7.403	-2.131	1.00	0.00	H
ATOM	536	HH2	TRP	A	38152.419	9.721	-2.704	1.00	0.00	H
ATOM	537	N	ILE	A	39148.803	8.456	2.118	1.00	0.00	N
ATOM	538	CA	ILE	A	39148.008	8.733	0.928	1.00	0.00	C
ATOM	539	C	ILE	A	39148.425	10.058	0.302	1.00	0.00	C
ATOM	540	O	ILE	A	39148.116	11.128	0.827	1.00	0.00	O
ATOM	541	CB	ILE	A	39146.503	8.781	1.255	1.00	0.00	C

ATOM	542	CG1	ILE	A	39146.092	7.549	2.061	1.00	0.00	C
ATOM	543	CG2	ILE	A	39145.687	8.879	-0.026	1.00	0.00	C
ATOM	544	CD1	ILE	A	39144.786	7.722	2.806	1.00	0.00	C
ATOM	545	H	ILE	A	39148.836	9.121	2.836	1.00	0.00	H
ATOM	546	HA	ILE	A	39148.179	7.937	0.218	1.00	0.00	H
ATOM	547	HB	ILE	A	39146.313	9.668	1.841	1.00	0.00	H
ATOM	548	1HG1	ILE	A	39145.982	6.708	1.392	1.00	0.00	H
ATOM	549	2HG1	ILE	A	39146.861	7.328	2.786	1.00	0.00	H
ATOM	550	1HG2	ILE	A	39146.116	8.231	-0.776	1.00	0.00	H
ATOM	551	2HG2	ILE	A	39145.698	9.899	-0.383	1.00	0.00	H
ATOM	552	3HG2	ILE	A	39144.670	8.577	0.171	1.00	0.00	H
ATOM	553	1HD1	ILE	A	39144.681	6.934	3.538	1.00	0.00	H
ATOM	554	2HD1	ILE	A	39143.964	7.676	2.107	1.00	0.00	H
ATOM	555	3HD1	ILE	A	39144.781	8.680	3.306	1.00	0.00	H
ATOM	556	N	GLY	A	40149.136	9.983	-0.819	1.00	0.00	N
ATOM	557	CA	GLY	A	40149.587	11.188	-1.488	1.00	0.00	C
ATOM	558	C	GLY	A	40150.050	10.933	-2.908	1.00	0.00	C
ATOM	559	O	GLY	A	40149.843	9.848	-3.453	1.00	0.00	O
ATOM	560	H	GLY	A	40149.357	9.104	-1.191	1.00	0.00	H
ATOM	561	1HA	GLY	A	40148.778	11.900	-1.508	1.00	0.00	H
ATOM	562	2HA	GLY	A	40150.407	11.610	-0.926	1.00	0.00	H
ATOM	563	N	GLN	A	41150.676	11.938	-3.509	1.00	0.00	N
ATOM	564	CA	GLN	A	41151.171	11.830	-4.875	1.00	0.00	C
ATOM	565	C	GLN	A	41152.650	12.210	-4.947	1.00	0.00	C
ATOM	566	O	GLN	A	41153.014	13.357	-4.695	1.00	0.00	O
ATOM	567	CB	GLN	A	41150.356	12.735	-5.799	1.00	0.00	C
ATOM	568	CG	GLN	A	41148.852	12.582	-5.627	1.00	0.00	C
ATOM	569	CD	GLN	A	41148.121	13.907	-5.696	1.00	0.00	C
ATOM	570	OE1	GLN	A	41148.156	14.700	-4.755	1.00	0.00	O
ATOM	571	NE2	GLN	A	41147.452	14.154	-6.815	1.00	0.00	N
ATOM	572	H	GLN	A	41150.807	12.778	-3.022	1.00	0.00	H

ATOM	573	HA	GLN A	41151.053	10.806	-5.193	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.615	13.762	-5.596	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.606	12.504	-6.822	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.476	11.940	-6.410	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.657	12.129	-4.666	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.467	13.476	-7.523	1.00	0.00	H
ATOM	579	2HE2	GLN A	41146.970	15.005	-6.889	1.00	0.00	H
ATOM	580	N	PRO A	42153.526	11.248	-5.290	1.00	0.00	N
ATOM	581	CA	PRO A	42154.970	11.495	-5.387	1.00	0.00	C
ATOM	582	C	PRO A	42155.300	12.609	-6.376	1.00	0.00	C
ATOM	583	O	PRO A	42154.494	12.938	-7.247	1.00	0.00	O
ATOM	584	CB	PRO A	42155.535	10.160	-5.880	1.00	0.00	C
ATOM	585	CG	PRO A	42154.511	9.149	-5.496	1.00	0.00	C
ATOM	586	CD	PRO A	42153.188	9.849	-5.607	1.00	0.00	C
ATOM	587	HA	PRO A	42155.394	11.735	-4.424	1.00	0.00	H
ATOM	588	1HB	PRO A	42155.673	10.197	-6.951	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.481	9.965	-5.397	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.549	8.309	-6.174	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.678	8.821	-4.481	1.00	0.00	H
ATOM	592	1HD	PRO A	42152.797	9.763	-6.610	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.486	9.450	-4.889	1.00	0.00	H
ATOM	594	N	PRO A	43156.498	13.206	-6.255	1.00	0.00	N
ATOM	595	CA	PRO A	43156.932	14.287	-7.143	1.00	0.00	C
ATOM	596	C	PRO A	43157.257	13.788	-8.547	1.00	0.00	C
ATOM	597	O	PRO A	43158.402	13.454	-8.848	1.00	0.00	O
ATOM	598	CB	PRO A	43158.194	14.817	-6.464	1.00	0.00	C
ATOM	599	CG	PRO A	43158.722	13.662	-5.688	1.00	0.00	C
ATOM	600	CD	PRO A	43157.519	12.874	-5.244	1.00	0.00	C
ATOM	601	HA	PRO A	43156.194	15.072	-7.203	1.00	0.00	H
ATOM	602	1HB	PRO A	43158.899	15.144	-7.215	1.00	0.00	H
ATOM	603	2HB	PRO A	43157.940	15.644	-5.818	1.00	0.00	H

ATOM	604	1HG	PRO	A	43159.356	13.055	-6.317	1.00	0.00	H
ATOM	605	2HG	PRO	A	43159.273	14.017	-4.830	1.00	0.00	H
ATOM	606	1HD	PRO	A	43157.738	11.816	-5.252	1.00	0.00	H
ATOM	607	2HD	PRO	A	43157.204	13.188	-4.261	1.00	0.00	H
ATOM	608	N	GLY	A	44156.242	13.740	-9.402	1.00	0.00	N
ATOM	609	CA	GLY	A	44156.443	13.281	-10.762	1.00	0.00	C
ATOM	610	C	GLY	A	44155.166	12.772	-11.398	1.00	0.00	C
ATOM	611	O	GLY	A	44154.808	13.184	-12.502	1.00	0.00	O
ATOM	612	H	GLY	A	44155.350	14.021	-9.106	1.00	0.00	H
ATOM	613	1HA	GLY	A	44156.824	14.099	-11.354	1.00	0.00	H
ATOM	614	2HA	GLY	A	44157.171	12.484	-10.757	1.00	0.00	H
ATOM	615	N	LEU	A	45154.477	11.874	-10.703	1.00	0.00	N
ATOM	616	CA	LEU	A	45153.232	11.309	-11.212	1.00	0.00	C
ATOM	617	C	LEU	A	45152.080	11.584	-10.252	1.00	0.00	C
ATOM	618	O	LEU	A	45152.048	11.056	-9.141	1.00	0.00	O
ATOM	619	CB	LEU	A	45153.383	9.802	-11.426	1.00	0.00	C
ATOM	620	CG	LEU	A	45153.993	9.040	-10.248	1.00	0.00	C
ATOM	621	CD1	LEU	A	45153.616	7.566	-10.311	1.00	0.00	C
ATOM	622	CD2	LEU	A	45155.507	9.208	-10.230	1.00	0.00	C
ATOM	623	H	LEU	A	45154.812	11.585	-9.827	1.00	0.00	H
ATOM	624	HA	LEU	A	45153.016	11.779	-12.159	1.00	0.00	H
ATOM	625	1HB	LEU	A	45152.405	9.390	-11.629	1.00	0.00	H
ATOM	626	2HB	LEU	A	45154.010	9.644	-12.292	1.00	0.00	H
ATOM	627	HG	LEU	A	45153.600	9.444	-9.326	1.00	0.00	H
ATOM	628	1HD1	LEU	A	45154.508	6.968	-10.422	1.00	0.00	H
ATOM	629	2HD1	LEU	A	45152.962	7.395	-11.153	1.00	0.00	H
ATOM	630	3HD1	LEU	A	45153.108	7.286	-9.399	1.00	0.00	H
ATOM	631	1HD2	LEU	A	45155.978	8.267	-10.475	1.00	0.00	H
ATOM	632	2HD2	LEU	A	45155.821	9.522	-9.245	1.00	0.00	H
ATOM	633	3HD2	LEU	A	45155.797	9.954	-10.954	1.00	0.00	H
ATOM	634	N	ASN	A	46151.134	12.411	-10.685	1.00	0.00	N

ATOM	635	CA	ASN A	46149.985	12.744	-9.853	1.00	0.00	C
ATOM	636	C	ASN A	46149.025	11.564	-9.775	1.00	0.00	C
ATOM	637	O	ASN A	46148.334	11.244	-10.743	1.00	0.00	O
ATOM	638	CB	ASN A	46149.263	13.970	-10.414	1.00	0.00	C
ATOM	639	CG	ASN A	46148.587	14.788	-9.332	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.364	14.927	-9.315	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.382	15.336	-8.419	1.00	0.00	N
ATOM	642	H	ASN A	46151.209	12.804	-11.580	1.00	0.00	H
ATOM	643	HA	ASN A	46150.346	12.969	-8.860	1.00	0.00	H
ATOM	644	1HB	ASN A	46149.978	14.601	-10.921	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.511	13.647	-11.118	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.346	15.184	-8.495	1.00	0.00	H
ATOM	647	2HD2	ASN A	46148.971	15.871	-7.709	1.00	0.00	H
ATOM	648	N	GLU A	47148.986	10.919	-8.614	1.00	0.00	N
ATOM	649	CA	GLU A	47148.111	9.773	-8.401	1.00	0.00	C
ATOM	650	C	GLU A	47148.019	9.432	-6.918	1.00	0.00	C
ATOM	651	O	GLU A	47149.028	9.143	-6.276	1.00	0.00	O
ATOM	652	CB	GLU A	47148.617	8.560	-9.186	1.00	0.00	C
ATOM	653	CG	GLU A	47150.131	8.423	-9.196	1.00	0.00	C
ATOM	654	CD	GLU A	47150.624	7.484	-10.279	1.00	0.00	C
ATOM	655	OE1	GLU A	47150.969	6.329	-9.952	1.00	0.00	O
ATOM	656	OE2	GLU A	47150.664	7.902	-11.456	1.00	0.00	O
ATOM	657	H	GLU A	47149.561	11.222	-7.882	1.00	0.00	H
ATOM	658	HA	GLU A	47147.127	10.037	-8.759	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.200	7.665	-8.750	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.279	8.642	-10.209	1.00	0.00	H
ATOM	661	1HG	GLU A	47150.567	9.396	-9.359	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.453	8.043	-8.237	1.00	0.00	H
ATOM	663	N	VAL A	48146.806	9.458	-6.380	1.00	0.00	N
ATOM	664	CA	VAL A	48146.596	9.143	-4.973	1.00	0.00	C
ATOM	665	C	VAL A	48146.991	7.702	-4.680	1.00	0.00	C

ATOM	666	O	VAL A	48146.235	6.771	-4.959	1.00	0.00	O
ATOM	667	CB	VAL A	48145.128	9.358	-4.559	1.00	0.00	C
ATOM	668	CG1	VAL A	48144.974	9.233	-3.051	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.629	10.711	-5.044	1.00	0.00	C
ATOM	670	H	VAL A	48146.036	9.690	-6.940	1.00	0.00	H
ATOM	671	HA	VAL A	48147.217	9.805	-4.386	1.00	0.00	H
ATOM	672	HB	VAL A	48144.528	8.589	-5.023	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.001	9.600	-2.757	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.741	9.816	-2.562	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.071	8.197	-2.764	1.00	0.00	H
ATOM	676	1HG2	VAL A	48143.931	11.115	-4.324	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.136	10.592	-5.996	1.00	0.00	H
ATOM	678	3HG2	VAL A	48145.465	11.386	-5.152	1.00	0.00	H
ATOM	679	N	LEU A	49148.181	7.521	-4.117	1.00	0.00	N
ATOM	680	CA	LEU A	49148.678	6.191	-3.789	1.00	0.00	C
ATOM	681	C	LEU A	49148.629	5.954	-2.286	1.00	0.00	C
ATOM	682	O	LEU A	49149.336	6.610	-1.521	1.00	0.00	O
ATOM	683	CB	LEU A	49150.110	6.016	-4.298	1.00	0.00	C
ATOM	684	CG	LEU A	49150.286	6.182	-5.809	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.730	6.526	-6.143	1.00	0.00	C
ATOM	686	CD2	LEU A	49149.855	4.919	-6.537	1.00	0.00	C
ATOM	687	H	LEU A	49148.740	8.302	-3.918	1.00	0.00	H
ATOM	688	HA	LEU A	49148.040	5.470	-4.277	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.737	6.742	-3.801	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.447	5.027	-4.027	1.00	0.00	H
ATOM	691	HG	LEU A	49149.662	6.996	-6.150	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.753	7.225	-6.966	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.259	5.626	-6.419	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.202	6.971	-5.280	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.382	4.846	-7.477	1.00	0.00	H
ATOM	696	2HD2	LEU A	49148.792	4.955	-6.722	1.00	0.00	H

ATOM	697	3HD2	LEU A	49150.085	4.056	-5.929	1.00	0.00	H
ATOM	698	N	ALA A	50147.792	5.012	-1.868	1.00	0.00	N
ATOM	699	CA	ALA A	50147.655	4.694	-0.455	1.00	0.00	C
ATOM	700	C	ALA A	50148.603	3.569	-0.052	1.00	0.00	C
ATOM	701	O	ALA A	50148.470	2.437	-0.516	1.00	0.00	O
ATOM	702	CB	ALA A	50146.217	4.316	-0.134	1.00	0.00	C
ATOM	703	H	ALA A	50147.254	4.523	-2.525	1.00	0.00	H
ATOM	704	HA	ALA A	50147.904	5.581	0.109	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.127	3.241	-0.091	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.563	4.701	-0.904	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.936	4.740	0.818	1.00	0.00	H
ATOM	708	N	GLY A	51149.560	3.889	0.812	1.00	0.00	N
ATOM	709	CA	GLY A	51150.516	2.895	1.261	1.00	0.00	C
ATOM	710	C	GLY A	51149.875	1.819	2.115	1.00	0.00	C
ATOM	711	O	GLY A	51149.355	2.100	3.194	1.00	0.00	O
ATOM	712	H	GLY A	51149.617	4.807	1.148	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.970	2.431	0.398	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.285	3.386	1.839	1.00	0.00	H
ATOM	715	N	LEU A	52149.911	0.582	1.630	1.00	0.00	N
ATOM	716	CA	LEU A	52149.328	-0.540	2.356	1.00	0.00	C
ATOM	717	C	LEU A	52150.414	-1.411	2.976	1.00	0.00	C
ATOM	718	O	LEU A	52151.413	-1.731	2.329	1.00	0.00	O
ATOM	719	CB	LEU A	52148.453	-1.379	1.423	1.00	0.00	C
ATOM	720	CG	LEU A	52147.160	-0.702	0.966	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.473	-1.534	-0.106	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.229	-0.481	2.150	1.00	0.00	C
ATOM	723	H	LEU A	52150.339	0.420	0.764	1.00	0.00	H
ATOM	724	HA	LEU A	52148.712	-0.137	3.146	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.035	-1.628	0.547	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.193	-2.294	1.934	1.00	0.00	H
ATOM	727	HG	LEU A	52147.396	0.262	0.541	1.00	0.00	H



ATOM	728	1HD1	LEU A	52147.208	-2.133	-0.621	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.985	-0.878	-0.812	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.739	-2.179	0.353	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.303	-0.046	1.804	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.698	0.185	2.857	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.025	-1.428	2.628	1.00	0.00	H
ATOM	734	N	GLU A	53150.214	-1.793	4.232	1.00	0.00	N
ATOM	735	CA	GLU A	53151.177	-2.629	4.941	1.00	0.00	C
ATOM	736	C	GLU A	53150.694	-4.075	5.012	1.00	0.00	C
ATOM	737	O	GLU A	53149.750	-4.389	5.735	1.00	0.00	O
ATOM	738	CB	GLU A	53151.412	-2.087	6.352	1.00	0.00	C
ATOM	739	CG	GLU A	53152.429	-2.889	7.149	1.00	0.00	C
ATOM	740	CD	GLU A	53151.911	-3.295	8.516	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.344	-4.351	9.024	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.074	-2.557	9.077	1.00	0.00	O
ATOM	743	H	GLU A	53149.400	-1.507	4.695	1.00	0.00	H
ATOM	744	HA	GLU A	53152.107	-2.599	4.393	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.765	-1.069	6.280	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.475	-2.097	6.889	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.678	-3.782	6.597	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.317	-2.289	7.282	1.00	0.00	H
ATOM	749	N	LEU A	54151.348	-4.948	4.254	1.00	0.00	N
ATOM	750	CA	LEU A	54150.986	-6.361	4.232	1.00	0.00	C
ATOM	751	C	LEU A	54151.279	-7.020	5.575	1.00	0.00	C
ATOM	752	O	LEU A	54152.360	-6.849	6.139	1.00	0.00	O
ATOM	753	CB	LEU A	54151.745	-7.085	3.118	1.00	0.00	C
ATOM	754	CG	LEU A	54151.619	-6.449	1.731	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.797	-6.845	0.855	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.307	-6.853	1.077	1.00	0.00	C
ATOM	757	H	LEU A	54152.093	-4.637	3.699	1.00	0.00	H
ATOM	758	HA	LEU A	54149.926	-6.427	4.034	1.00	0.00	H

ATOM	759	1HB	LEU	A	54152.791	-7.115	3.384	1.00	0.00	H
ATOM	760	2HB	LEU	A	54151.376	-8.098	3.058	1.00	0.00	H
ATOM	761	HG	LEU	A	54151.627	-5.374	1.834	1.00	0.00	H
ATOM	762	1HD1	LEU	A	54153.623	-6.171	1.034	1.00	0.00	H
ATOM	763	2HD1	LEU	A	54152.507	-6.790	-0.184	1.00	0.00	H
ATOM	764	3HD1	LEU	A	54153.100	-7.855	1.091	1.00	0.00	H
ATOM	765	1HD2	LEU	A	54149.987	-7.807	1.472	1.00	0.00	H
ATOM	766	2HD2	LEU	A	54150.446	-6.933	0.010	1.00	0.00	H
ATOM	767	3HD2	LEU	A	54149.556	-6.106	1.288	1.00	0.00	H
ATOM	768	N	GLU	A	55150.309	-7.774	6.083	1.00	0.00	N
ATOM	769	CA	GLU	A	55150.462	-8.459	7.360	1.00	0.00	C
ATOM	770	C	GLU	A	55151.571	-9.504	7.289	1.00	0.00	C
ATOM	771	O	GLU	A	55152.265	-9.755	8.274	1.00	0.00	O
ATOM	772	CB	GLU	A	55149.146	-9.124	7.768	1.00	0.00	C
ATOM	773	CG	GLU	A	55148.103	-8.144	8.281	1.00	0.00	C
ATOM	774	CD	GLU	A	55147.157	-8.774	9.285	1.00	0.00	C
ATOM	775	OE1	GLU	A	55145.950	-8.455	9.243	1.00	0.00	O
ATOM	776	OE2	GLU	A	55147.622	-9.586	10.112	1.00	0.00	O
ATOM	777	H	GLU	A	55149.470	-7.872	5.586	1.00	0.00	H
ATOM	778	HA	GLU	A	55150.727	-7.721	8.102	1.00	0.00	H
ATOM	779	1HB	GLU	A	55148.734	-9.637	6.911	1.00	0.00	H
ATOM	780	2HB	GLU	A	55149.346	-9.845	8.546	1.00	0.00	H
ATOM	781	1HG	GLU	A	55148.608	-7.317	8.757	1.00	0.00	H
ATOM	782	2HG	GLU	A	55147.527	-7.780	7.444	1.00	0.00	H
ATOM	783	N	ASP	A	56151.732	-10.111	6.118	1.00	0.00	N
ATOM	784	CA	ASP	A	56152.757	-11.128	5.919	1.00	0.00	C
ATOM	785	C	ASP	A	56154.003	-10.528	5.278	1.00	0.00	C
ATOM	786	O	ASP	A	56153.911	-9.733	4.342	1.00	0.00	O
ATOM	787	CB	ASP	A	56152.217	-12.262	5.046	1.00	0.00	C
ATOM	788	CG	ASP	A	56151.588	-13.373	5.864	1.00	0.00	C
ATOM	789	OD1	ASP	A	56151.467	-14.501	5.341	1.00	0.00	O

ATOM	790	OD2	ASP	A	56151.216	-13.115	7.028	1.00	0.00	O
ATOM	791	H	ASP	A	56151.148	-9.868	5.370	1.00	0.00	H
ATOM	792	HA	ASP	A	56153.021	-11.526	6.887	1.00	0.00	H
ATOM	793	1HB	ASP	A	56151.468	-11.868	4.375	1.00	0.00	H
ATOM	794	2HB	ASP	A	56153.028	-12.681	4.467	1.00	0.00	H
ATOM	795	N	GLU	A	57155.169	-10.913	5.787	1.00	0.00	N
ATOM	796	CA	GLU	A	57156.435	-10.413	5.264	1.00	0.00	C
ATOM	797	C	GLU	A	57156.757	-11.051	3.916	1.00	0.00	C
ATOM	798	O	GLU	A	57157.071	-12.238	3.840	1.00	0.00	O
ATOM	799	CB	GLU	A	57157.567	-10.690	6.256	1.00	0.00	C
ATOM	800	CG	GLU	A	57157.459	-9.886	7.541	1.00	0.00	C
ATOM	801	CD	GLU	A	57158.779	-9.793	8.281	1.00	0.00	C
ATOM	802	OE1	GLU	A	57159.329	-10.852	8.651	1.00	0.00	O
ATOM	803	OE2	GLU	A	57159.263	-8.661	8.493	1.00	0.00	O
ATOM	804	H	GLU	A	57155.178	-11.550	6.532	1.00	0.00	H
ATOM	805	HA	GLU	A	57156.340	-9.346	5.130	1.00	0.00	H
ATOM	806	1HB	GLU	A	57157.556	-11.740	6.512	1.00	0.00	H
ATOM	807	2HB	GLU	A	57158.509	-10.453	5.785	1.00	0.00	H
ATOM	808	1HG	GLU	A	57157.129	-8.886	7.299	1.00	0.00	H
ATOM	809	2HG	GLU	A	57156.733	-10.357	8.187	1.00	0.00	H
ATOM	810	N	CYS	A	58156.675	-10.254	2.856	1.00	0.00	N
ATOM	811	CA	CYS	A	58156.958	-10.741	1.511	1.00	0.00	C
ATOM	812	C	CYS	A	58158.320	-10.252	1.030	1.00	0.00	C
ATOM	813	O	CYS	A	58158.642	-9.070	1.145	1.00	0.00	O
ATOM	814	CB	CYS	A	58155.867	-10.285	0.541	1.00	0.00	C
ATOM	815	SG	CYS	A	58154.348	-11.261	0.627	1.00	0.00	S
ATOM	816	H	CYS	A	58156.419	-9.317	2.981	1.00	0.00	H
ATOM	817	HA	CYS	A	58156.968	-11.820	1.545	1.00	0.00	H
ATOM	818	1HB	CYS	A	58155.610	-9.259	0.757	1.00	0.00	H
ATOM	819	2HB	CYS	A	58156.245	-10.350	-0.469	1.00	0.00	H
ATOM	820	HG	CYS	A	58153.708	-10.768	1.144	1.00	0.00	H

ATOM	821	N	ALA	A	59159.116	-11.169	0.490	1.00	0.00	N
ATOM	822	CA	ALA	A	59160.443	-10.831	-0.010	1.00	0.00	C
ATOM	823	C	ALA	A	59160.355	-9.963	-1.260	1.00	0.00	C
ATOM	824	O	ALA	A	59159.723	-10.342	-2.247	1.00	0.00	O
ATOM	825	CB	ALA	A	59161.238	-12.096	-0.297	1.00	0.00	C
ATOM	826	H	ALA	A	59158.804	-12.096	0.426	1.00	0.00	H
ATOM	827	HA	ALA	A	59160.959	-10.278	0.763	1.00	0.00	H
ATOM	828	1HB	ALA	A	59162.273	-11.939	-0.034	1.00	0.00	H
ATOM	829	2HB	ALA	A	59161.165	-12.335	-1.348	1.00	0.00	H
ATOM	830	3HB	ALA	A	59160.838	-12.912	0.286	1.00	0.00	H
ATOM	831	N	GLY	A	60160.991	-8.797	-1.212	1.00	0.00	N
ATOM	832	CA	GLY	A	60160.970	-7.894	-2.347	1.00	0.00	C
ATOM	833	C	GLY	A	60160.116	-6.667	-2.097	1.00	0.00	C
ATOM	834	O	GLY	A	60159.562	-6.088	-3.032	1.00	0.00	O
ATOM	835	H	GLY	A	60161.478	-8.549	-0.399	1.00	0.00	H
ATOM	836	1HA	GLY	A	60161.982	-7.578	-2.559	1.00	0.00	H
ATOM	837	2HA	GLY	A	60160.581	-8.421	-3.206	1.00	0.00	H
ATOM	838	N	CYS	A	61160.011	-6.269	-0.834	1.00	0.00	N
ATOM	839	CA	CYS	A	61159.219	-5.102	-0.463	1.00	0.00	C
ATOM	840	C	CYS	A	61160.044	-4.127	0.371	1.00	0.00	C
ATOM	841	O	CYS	A	61161.192	-4.408	0.718	1.00	0.00	O
ATOM	842	CB	CYS	A	61157.976	-5.532	0.318	1.00	0.00	C
ATOM	843	SG	CYS	A	61156.886	-6.654	-0.588	1.00	0.00	S
ATOM	844	H	CYS	A	61160.478	-6.771	-0.134	1.00	0.00	H
ATOM	845	HA	CYS	A	61158.910	-4.609	-1.372	1.00	0.00	H
ATOM	846	1HB	CYS	A	61158.284	-6.034	1.223	1.00	0.00	H
ATOM	847	2HB	CYS	A	61157.402	-4.654	0.578	1.00	0.00	H
ATOM	848	HG	CYS	A	61156.192	-6.941	0.010	1.00	0.00	H
ATOM	849	N	THR	A	62159.453	-2.980	0.688	1.00	0.00	N
ATOM	850	CA	THR	A	62160.133	-1.963	1.481	1.00	0.00	C
ATOM	851	C	THR	A	62159.551	-1.891	2.889	1.00	0.00	C

ATOM	852	O	THR A	62158.550	-2.540	3.191	1.00	0.00	O
ATOM	853	CB	THR A	62160.022	-0.597	0.802	1.00	0.00	C
ATOM	854	OG1	THR A	62158.691	-0.355	0.380	1.00	0.00	O
ATOM	855	CG2	THR A	62160.918	-0.457	-0.410	1.00	0.00	C
ATOM	856	H	THR A	62158.537	-2.814	0.383	1.00	0.00	H
ATOM	857	HA	THR A	62161.175	-2.237	1.548	1.00	0.00	H
ATOM	858	HB	THR A	62160.299	0.170	1.509	1.00	0.00	H
ATOM	859	HG1	THR A	62158.468	-0.950	-0.338	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.948	-0.395	-0.089	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.655	0.440	-0.951	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.793	-1.315	-1.052	1.00	0.00	H
ATOM	863	N	ASP A	63160.186	-1.098	3.746	1.00	0.00	N
ATOM	864	CA	ASP A	63159.731	-0.942	5.124	1.00	0.00	C
ATOM	865	C	ASP A	63158.970	0.368	5.299	1.00	0.00	C
ATOM	866	O	ASP A	63158.997	0.975	6.370	1.00	0.00	O
ATOM	867	CB	ASP A	63160.920	-0.987	6.084	1.00	0.00	C
ATOM	868	CG	ASP A	63162.000	0.012	5.714	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.659	1.181	5.440	1.00	0.00	O
ATOM	870	OD2	ASP A	63163.187	-0.376	5.700	1.00	0.00	O
ATOM	871	H	ASP A	63160.979	-0.607	3.446	1.00	0.00	H
ATOM	872	HA	ASP A	63159.067	-1.762	5.348	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.577	-0.765	7.083	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.351	-1.977	6.068	1.00	0.00	H
ATOM	875	N	GLY A	64158.292	0.798	4.240	1.00	0.00	N
ATOM	876	CA	GLY A	64157.532	2.035	4.298	1.00	0.00	C
ATOM	877	C	GLY A	64158.158	3.138	3.469	1.00	0.00	C
ATOM	878	O	GLY A	64158.231	4.287	3.907	1.00	0.00	O
ATOM	879	H	GLY A	64158.307	0.274	3.413	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.533	1.848	3.933	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.473	2.360	5.326	1.00	0.00	H
ATOM	882	N	THR A	65158.611	2.791	2.269	1.00	0.00	N

ATOM	883	CA	THR	A	65159.233	3.761	1.376	1.00	0.00	C
ATOM	884	C	THR	A	65158.795	3.533	-0.066	1.00	0.00	C
ATOM	885	O	THR	A	65158.999	2.456	-0.625	1.00	0.00	O
ATOM	886	CB	THR	A	65160.758	3.673	1.477	1.00	0.00	C
ATOM	887	OG1	THR	A	65161.181	2.322	1.501	1.00	0.00	O
ATOM	888	CG2	THR	A	65161.315	4.351	2.709	1.00	0.00	C
ATOM	889	H	THR	A	65158.524	1.860	1.976	1.00	0.00	H
ATOM	890	HA	THR	A	65158.918	4.746	1.685	1.00	0.00	H
ATOM	891	HB	THR	A	65161.193	4.151	0.611	1.00	0.00	H
ATOM	892	HG1	THR	A	65160.896	1.911	2.320	1.00	0.00	H
ATOM	893	1HG2	THR	A	65162.264	3.904	2.967	1.00	0.00	H
ATOM	894	2HG2	THR	A	65160.625	4.230	3.531	1.00	0.00	H
ATOM	895	3HG2	THR	A	65161.457	5.403	2.509	1.00	0.00	H
ATOM	896	N	PHE	A	66158.192	4.556	-0.665	1.00	0.00	N
ATOM	897	CA	PHE	A	66157.725	4.467	-2.044	1.00	0.00	C
ATOM	898	C	PHE	A	66158.660	5.221	-2.983	1.00	0.00	C
ATOM	899	O	PHE	A	66158.855	6.429	-2.843	1.00	0.00	O
ATOM	900	CB	PHE	A	66156.306	5.025	-2.160	1.00	0.00	C
ATOM	901	CG	PHE	A	66155.651	4.726	-3.479	1.00	0.00	C
ATOM	902	CD1	PHE	A	66155.476	3.417	-3.900	1.00	0.00	C
ATOM	903	CD2	PHE	A	66155.211	5.754	-4.297	1.00	0.00	C
ATOM	904	CE1	PHE	A	66154.874	3.138	-5.112	1.00	0.00	C
ATOM	905	CE2	PHE	A	66154.608	5.482	-5.511	1.00	0.00	C
ATOM	906	CZ	PHE	A	66154.439	4.173	-5.918	1.00	0.00	C
ATOM	907	H	PHE	A	66158.059	5.390	-0.167	1.00	0.00	H
ATOM	908	HA	PHE	A	66157.717	3.424	-2.324	1.00	0.00	H
ATOM	909	1HB	PHE	A	66155.693	4.596	-1.381	1.00	0.00	H
ATOM	910	2HB	PHE	A	66156.337	6.098	-2.039	1.00	0.00	H
ATOM	911	HD1	PHE	A	66155.815	2.609	-3.269	1.00	0.00	H
ATOM	912	HD2	PHE	A	66155.342	6.777	-3.979	1.00	0.00	H
ATOM	913	HE1	PHE	A	66154.745	2.115	-5.429	1.00	0.00	H

ATOM	914	HE2	PHE	A	66154.269	6.291	-6.139	1.00	0.00	H
ATOM	915	HZ	PHE	A	66153.969	3.957	-6.867	1.00	0.00	H
ATOM	916	N	ARG	A	67159.236	4.503	-3.941	1.00	0.00	N
ATOM	917	CA	ARG	A	67160.150	5.105	-4.903	1.00	0.00	C
ATOM	918	C	ARG	A	67161.354	5.721	-4.197	1.00	0.00	C
ATOM	919	O	ARG	A	67161.911	6.720	-4.654	1.00	0.00	O
ATOM	920	CB	ARG	A	67159.427	6.171	-5.728	1.00	0.00	C
ATOM	921	CG	ARG	A	67158.093	5.706	-6.288	1.00	0.00	C
ATOM	922	CD	ARG	A	67158.260	5.031	-7.639	1.00	0.00	C
ATOM	923	NE	ARG	A	67158.418	3.585	-7.514	1.00	0.00	N
ATOM	924	CZ	ARG	A	67158.263	2.732	-8.524	1.00	0.00	C
ATOM	925	NH1	ARG	A	67157.948	3.175	-9.734	1.00	0.00	N
ATOM	926	NH2	ARG	A	67158.425	1.431	-8.324	1.00	0.00	N
ATOM	927	H	ARG	A	67159.042	3.544	-4.001	1.00	0.00	H
ATOM	928	HA	ARG	A	67160.497	4.325	-5.564	1.00	0.00	H
ATOM	929	1HB	ARG	A	67159.250	7.034	-5.104	1.00	0.00	H
ATOM	930	2HB	ARG	A	67160.059	6.460	-6.555	1.00	0.00	H
ATOM	931	1HG	ARG	A	67157.650	5.003	-5.598	1.00	0.00	H
ATOM	932	2HG	ARG	A	67157.443	6.562	-6.399	1.00	0.00	H
ATOM	933	1HD	ARG	A	67157.388	5.238	-8.241	1.00	0.00	H
ATOM	934	2HD	ARG	A	67159.135	5.440	-8.125	1.00	0.00	H
ATOM	935	HE	ARG	A	67158.653	3.231	-6.631	1.00	0.00	H
ATOM	936	1HH1	ARG	A	67157.826	4.156	-9.892	1.00	0.00	H
ATOM	937	2HH1	ARG	A	67157.834	2.530	-10.489	1.00	0.00	H
ATOM	938	1HH2	ARG	A	67158.663	1.091	-7.413	1.00	0.00	H
ATOM	939	2HH2	ARG	A	67158.308	0.789	-9.082	1.00	0.00	H
ATOM	940	N	GLY	A	68161.749	5.121	-3.080	1.00	0.00	N
ATOM	941	CA	GLY	A	68162.884	5.624	-2.328	1.00	0.00	C
ATOM	942	C	GLY	A	68162.519	6.802	-1.446	1.00	0.00	C
ATOM	943	O	GLY	A	68163.364	7.644	-1.143	1.00	0.00	O
ATOM	944	H	GLY	A	68161.268	4.328	-2.763	1.00	0.00	H

ATOM	945	1HA	GLY A	68163.271	4.829	-1.708	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.652	5.931	-3.021	1.00	0.00	H
ATOM	947	N	THR A	69161.257	6.861	-1.033	1.00	0.00	N
ATOM	948	CA	THR A	69160.782	7.945	-0.180	1.00	0.00	C
ATOM	949	C	THR A	69159.945	7.403	0.975	1.00	0.00	C
ATOM	950	O	THR A	69158.848	6.885	0.769	1.00	0.00	O
ATOM	951	CB	THR A	69159.959	8.941	-0.998	1.00	0.00	C
ATOM	952	OG1	THR A	69160.631	9.282	-2.197	1.00	0.00	O
ATOM	953	CG2	THR A	69159.663	10.226	-0.255	1.00	0.00	C
ATOM	954	H	THR A	69160.630	6.160	-1.307	1.00	0.00	H
ATOM	955	HA	THR A	69161.646	8.451	0.223	1.00	0.00	H
ATOM	956	HB	THR A	69159.014	8.483	-1.257	1.00	0.00	H
ATOM	957	HG1	THR A	69160.053	9.815	-2.748	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.554	10.015	0.799	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.749	10.658	-0.634	1.00	0.00	H
ATOM	960	3HG2	THR A	69160.477	10.920	-0.401	1.00	0.00	H
ATOM	961	N	ARG A	70160.472	7.526	2.189	1.00	0.00	N
ATOM	962	CA	ARG A	70159.773	7.048	3.376	1.00	0.00	C
ATOM	963	C	ARG A	70158.628	7.985	3.747	1.00	0.00	C
ATOM	964	O	ARG A	70158.820	9.195	3.876	1.00	0.00	O
ATOM	965	CB	ARG A	70160.745	6.923	4.551	1.00	0.00	C
ATOM	966	CG	ARG A	70160.211	6.076	5.694	1.00	0.00	C
ATOM	967	CD	ARG A	70160.766	6.535	7.033	1.00	0.00	C
ATOM	968	NE	ARG A	70162.223	6.642	7.014	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.971	6.784	8.106	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.403	6.833	9.305	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.289	6.874	8.000	1.00	0.00	N
ATOM	972	H	ARG A	70161.351	7.948	2.289	1.00	0.00	H
ATOM	973	HA	ARG A	70159.366	6.074	3.151	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.662	6.474	4.198	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.961	7.909	4.932	1.00	0.00	H



ATOM	976	1HG	ARG A	70159.134	6.157	5.717	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.493	5.047	5.530	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.346	7.500	7.271	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.478	5.820	7.791	1.00	0.00	H
ATOM	980	HE	ARG A	70162.667	6.609	6.141	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.410	6.764	9.393	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.971	6.939	10.122	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.722	6.837	7.098	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.851	6.981	8.820	1.00	0.00	H
ATOM	985	N	TYR A	71157.438	7.420	3.917	1.00	0.00	N
ATOM	986	CA	TYR A	71156.262	8.204	4.273	1.00	0.00	C
ATOM	987	C	TYR A	71155.798	7.879	5.689	1.00	0.00	C
ATOM	988	O	TYR A	71155.340	8.757	6.421	1.00	0.00	O
ATOM	989	CB	TYR A	71155.128	7.942	3.280	1.00	0.00	C
ATOM	990	CG	TYR A	71155.340	8.592	1.932	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.142	7.880	0.756	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.738	9.920	1.834	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.336	8.471	-0.478	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.933	10.518	0.604	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.731	9.790	-0.549	1.00	0.00	C
ATOM	996	OH	TYR A	71155.924	10.382	-1.776	1.00	0.00	O
ATOM	997	H	TYR A	71157.349	6.451	3.800	1.00	0.00	H
ATOM	998	HA	TYR A	71156.534	9.249	4.227	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.035	6.879	3.123	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.205	8.323	3.691	1.00	0.00	H
ATOM	1001	HD1	TYR A	71154.832	6.846	0.815	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.897	10.489	2.739	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.177	7.899	-1.380	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.243	11.552	0.549	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.751	10.868	-1.770	1.00	0.00	H
ATOM	1006	N	PHE A	72155.919	6.611	6.069	1.00	0.00	N

ATOM	1007	CA	PHE A	72155.513	6.169	7.397	1.00	0.00	C
ATOM	1008	C	PHE A	72156.513	5.169	7.968	1.00	0.00	C
ATOM	1009	O	PHE A	72157.471	4.783	7.299	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.119	5.541	7.343	1.00	0.00	C
ATOM	1011	CG	PHE A	72154.009	4.406	6.366	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.735	4.650	5.030	1.00	0.00	C
ATOM	1013	CD2	PHE A	72154.181	3.096	6.783	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.633	3.608	4.128	1.00	0.00	C
ATOM	1015	CE2	PHE A	72154.081	2.050	5.886	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.806	2.306	4.557	1.00	0.00	C
ATOM	1017	H	PHE A	72156.291	5.957	5.441	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.483	7.036	8.040	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.865	5.162	8.322	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.401	6.297	7.059	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.599	5.667	4.694	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.396	2.895	7.823	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.418	3.810	3.089	1.00	0.00	H
ATOM	1024	HE2	PHE A	72154.217	1.033	6.224	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.728	1.490	3.854	1.00	0.00	H
ATOM	1026	N	THR A	73156.282	4.752	9.209	1.00	0.00	N
ATOM	1027	CA	THR A	73157.162	3.795	9.870	1.00	0.00	C
ATOM	1028	C	THR A	73156.453	2.463	10.088	1.00	0.00	C
ATOM	1029	O	THR A	73155.491	2.378	10.851	1.00	0.00	O
ATOM	1030	CB	THR A	73157.643	4.355	11.210	1.00	0.00	C
ATOM	1031	OG1	THR A	73156.583	5.000	11.894	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.773	5.352	11.071	1.00	0.00	C
ATOM	1033	H	THR A	73155.502	5.096	9.691	1.00	0.00	H
ATOM	1034	HA	THR A	73158.017	3.634	9.230	1.00	0.00	H
ATOM	1035	HB	THR A	73157.996	3.538	11.823	1.00	0.00	H
ATOM	1036	HG1	THR A	73156.693	4.881	12.840	1.00	0.00	H
ATOM	1037	1HG2	THR A	73158.585	6.200	11.713	1.00	0.00	H

ATOM 1038 2HG2 THR A 73158.837 5.683 10.046 1.00 0.00 H  
 ATOM 1039 3HG2 THR A 73159.703 4.884 11.357 1.00 0.00 H  
 ATOM 1040 N CYS A 74156.934 1.425 9.411 1.00 0.00 N  
 ATOM 1041 CA CYS A 74156.346 0.096 9.531 1.00 0.00 C  
 ATOM 1042 C CYS A 74157.427 -0.980 9.525 1.00 0.00 C  
 ATOM 1043 O CYS A 74158.610 -0.684 9.362 1.00 0.00 O  
 ATOM 1044 CB CYS A 74155.357 -0.152 8.390 1.00 0.00 C  
 ATOM 1045 SG CYS A 74153.661 0.351 8.762 1.00 0.00 S  
 ATOM 1046 H CYS A 74157.703 1.556 8.819 1.00 0.00 H  
 ATOM 1047 HA CYS A 74155.815 0.052 10.470 1.00 0.00 H  
 ATOM 1048 1HB CYS A 74155.679 0.399 7.519 1.00 0.00 H  
 ATOM 1049 2HB CYS A 74155.344 -1.206 8.157 1.00 0.00 H  
 ATOM 1050 HG CYS A 74153.664 1.294 8.942 1.00 0.00 H  
 ATOM 1051 N ALA A 75157.011 -2.229 9.704 1.00 0.00 N  
 ATOM 1052 CA ALA A 75157.944 -3.350 9.720 1.00 0.00 C  
 ATOM 1053 C ALA A 75158.702 -3.452 8.401 1.00 0.00 C  
 ATOM 1054 O ALA A 75158.480 -2.661 7.484 1.00 0.00 O  
 ATOM 1055 CB ALA A 75157.205 -4.647 10.008 1.00 0.00 C  
 ATOM 1056 H ALA A 75156.055 -2.403 9.830 1.00 0.00 H  
 ATOM 1057 HA ALA A 75158.654 -3.182 10.518 1.00 0.00 H  
 ATOM 1058 1HB ALA A 75157.023 -5.171 9.081 1.00 0.00 H  
 ATOM 1059 2HB ALA A 75156.262 -4.426 10.487 1.00 0.00 H  
 ATOM 1060 3HB ALA A 75157.804 -5.266 10.659 1.00 0.00 H  
 ATOM 1061 N LEU A 76159.596 -4.431 8.312 1.00 0.00 N  
 ATOM 1062 CA LEU A 76160.387 -4.637 7.104 1.00 0.00 C  
 ATOM 1063 C LEU A 76159.716 -5.649 6.180 1.00 0.00 C  
 ATOM 1064 O LEU A 76159.147 -6.640 6.638 1.00 0.00 O  
 ATOM 1065 CB LEU A 76161.794 -5.115 7.466 1.00 0.00 C  
 ATOM 1066 CG LEU A 76162.730 -4.029 7.999 1.00 0.00 C  
 ATOM 1067 CD1 LEU A 76163.737 -4.623 8.971 1.00 0.00 C  
 ATOM 1068 CD2 LEU A 76163.442 -3.330 6.851 1.00 0.00 C

ATOM	1069	H	LEU A	76159.727	-5.029	9.076	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.459	-3.690	6.589	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.707	-5.887	8.216	1.00	0.00	H
ATOM	1072	2HB	LEU A	76162.244	-5.544	6.583	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.148	-3.291	8.533	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.281	-5.419	8.485	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.217	-5.016	9.833	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.429	-3.856	9.287	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76162.828	-3.375	5.965	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76164.385	-3.821	6.660	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.621	-2.297	7.114	1.00	0.00	H
ATOM	1080	N	LYS A	77159.786	-5.390	4.878	1.00	0.00	N
ATOM	1081	CA	LYS A	77159.185	-6.279	3.890	1.00	0.00	C
ATOM	1082	C	LYS A	77157.676	-6.375	4.090	1.00	0.00	C
ATOM	1083	O	LYS A	77157.083	-7.440	3.918	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.812	-7.672	3.975	1.00	0.00	C
ATOM	1085	CG	LYS A	77161.303	-7.687	3.676	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.578	-7.419	2.206	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.960	-6.821	1.998	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.955	-7.851	1.590	1.00	0.00	N
ATOM	1089	H	LYS A	77160.252	-4.584	4.575	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.380	-5.865	2.911	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.663	-8.060	4.973	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.318	-8.321	3.268	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.786	-6.924	4.268	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.701	-8.656	3.938	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.514	-8.349	1.662	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.836	-6.729	1.830	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.900	-6.067	1.227	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.283	-6.365	2.922	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77164.769	-7.397	1.128	1.00	0.00	H

ATOM 1100 2HZ LYS A 77163.523 -8.522 0.925 1.00 0.00 H  
 ATOM 1101 3HZ LYS A 77164.290 -8.374 2.425 1.00 0.00 H  
 ATOM 1102 N LYS A 78157.060 -5.255 4.456 1.00 0.00 N  
 ATOM 1103 CA LYS A 78155.619 -5.213 4.681 1.00 0.00 C  
 ATOM 1104 C LYS A 78155.047 -3.853 4.293 1.00 0.00 C  
 ATOM 1105 O LYS A 78154.151 -3.333 4.959 1.00 0.00 O  
 ATOM 1106 CB LYS A 78155.301 -5.516 6.146 1.00 0.00 C  
 ATOM 1107 CG LYS A 78155.852 -6.848 6.626 1.00 0.00 C  
 ATOM 1108 CD LYS A 78155.565 -7.071 8.102 1.00 0.00 C  
 ATOM 1109 CE LYS A 78154.387 -8.009 8.306 1.00 0.00 C  
 ATOM 1110 NZ LYS A 78153.519 -7.573 9.435 1.00 0.00 N  
 ATOM 1111 H LYS A 78157.587 -4.437 4.578 1.00 0.00 H  
 ATOM 1112 HA LYS A 78155.166 -5.971 4.059 1.00 0.00 H  
 ATOM 1113 1HB LYS A 78155.721 -4.734 6.762 1.00 0.00 H  
 ATOM 1114 2HB LYS A 78154.228 -5.526 6.275 1.00 0.00 H  
 ATOM 1115 1HG LYS A 78155.393 -7.643 6.056 1.00 0.00 H  
 ATOM 1116 2HG LYS A 78156.921 -6.862 6.469 1.00 0.00 H  
 ATOM 1117 1HD LYS A 78156.439 -7.503 8.567 1.00 0.00 H  
 ATOM 1118 2HD LYS A 78155.341 -6.121 8.562 1.00 0.00 H  
 ATOM 1119 1HE LYS A 78153.799 -8.031 7.401 1.00 0.00 H  
 ATOM 1120 2HE LYS A 78154.763 -9.000 8.513 1.00 0.00 H  
 ATOM 1121 1HZ LYS A 78154.104 -7.298 10.250 1.00 0.00 H  
 ATOM 1122 2HZ LYS A 78152.889 -8.348 9.722 1.00 0.00 H  
 ATOM 1123 3HZ LYS A 78152.940 -6.759 9.147 1.00 0.00 H  
 ATOM 1124 N ALA A 79155.570 -3.282 3.214 1.00 0.00 N  
 ATOM 1125 CA ALA A 79155.112 -1.982 2.739 1.00 0.00 C  
 ATOM 1126 C ALA A 79154.892 -1.996 1.230 1.00 0.00 C  
 ATOM 1127 O ALA A 79155.848 -1.961 0.454 1.00 0.00 O  
 ATOM 1128 CB ALA A 79156.109 -0.899 3.119 1.00 0.00 C  
 ATOM 1129 H ALA A 79156.281 -3.746 2.724 1.00 0.00 H  
 ATOM 1130 HA ALA A 79154.173 -1.762 3.227 1.00 0.00 H

ATOM 1131 1HB ALA A 79155.578 0.005 3.377 1.00 0.00 H  
 ATOM 1132 2HB ALA A 79156.767 -0.706 2.285 1.00 0.00 H  
 ATOM 1133 3HB ALA A 79156.692 -1.229 3.967 1.00 0.00 H  
 ATOM 1134 N LEU A 80153.630 -2.047 0.820 1.00 0.00 N  
 ATOM 1135 CA LEU A 80153.285 -2.065 -0.597 1.00 0.00 C  
 ATOM 1136 C LEU A 80152.294 -0.953 -0.929 1.00 0.00 C  
 ATOM 1137 O LEU A 80151.145 -0.979 -0.489 1.00 0.00 O  
 ATOM 1138 CB LEU A 80152.694 -3.423 -0.982 1.00 0.00 C  
 ATOM 1139 CG LEU A 80152.225 -3.537 -2.434 1.00 0.00 C  
 ATOM 1140 CD1 LEU A 80153.416 -3.646 -3.372 1.00 0.00 C  
 ATOM 1141 CD2 LEU A 80151.301 -4.734 -2.601 1.00 0.00 C  
 ATOM 1142 H LEU A 80152.912 -2.073 1.487 1.00 0.00 H  
 ATOM 1143 HA LEU A 80154.191 -1.903 -1.160 1.00 0.00 H  
 ATOM 1144 1HB LEU A 80153.444 -4.180 -0.806 1.00 0.00 H  
 ATOM 1145 2HB LEU A 80151.850 -3.621 -0.338 1.00 0.00 H  
 ATOM 1146 HG LEU A 80151.673 -2.647 -2.697 1.00 0.00 H  
 ATOM 1147 1HD1 LEU A 80153.124 -4.177 -4.265 1.00 0.00 H  
 ATOM 1148 2HD1 LEU A 80154.215 -4.182 -2.880 1.00 0.00 H  
 ATOM 1149 3HD1 LEU A 80153.757 -2.656 -3.637 1.00 0.00 H  
 ATOM 1150 1HD2 LEU A 80151.434 -5.156 -3.587 1.00 0.00 H  
 ATOM 1151 2HD2 LEU A 80150.276 -4.416 -2.480 1.00 0.00 H  
 ATOM 1152 3HD2 LEU A 80151.538 -5.478 -1.856 1.00 0.00 H  
 ATOM 1153 N PHE A 81152.748 0.022 -1.710 1.00 0.00 N  
 ATOM 1154 CA PHE A 81151.901 1.143 -2.102 1.00 0.00 C  
 ATOM 1155 C PHE A 81151.048 0.782 -3.314 1.00 0.00 C  
 ATOM 1156 O PHE A 81151.438 -0.049 -4.134 1.00 0.00 O  
 ATOM 1157 CB PHE A 81152.759 2.370 -2.415 1.00 0.00 C  
 ATOM 1158 CG PHE A 81153.604 2.823 -1.259 1.00 0.00 C  
 ATOM 1159 CD1 PHE A 81154.786 2.169 -0.951 1.00 0.00 C  
 ATOM 1160 CD2 PHE A 81153.216 3.902 -0.480 1.00 0.00 C  
 ATOM 1161 CE1 PHE A 81155.566 2.583 0.112 1.00 0.00 C

ATOM	1162	CE2	PHE A	81153.993	4.320	0.584	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.169	3.660	0.881	1.00	0.00	C
ATOM	1164	H	PHE A	81153.673	-0.013	-2.030	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.249	1.371	-1.273	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.418	2.141	-3.239	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.112	3.190	-2.696	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.098	1.328	-1.552	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.297	4.418	-0.711	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.485	2.064	0.342	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.679	5.162	1.184	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.777	3.984	1.712	1.00	0.00	H
ATOM	1173	N	VAL A	82149.883	1.411	-3.419	1.00	0.00	N
ATOM	1174	CA	VAL A	82148.974	1.155	-4.530	1.00	0.00	C
ATOM	1175	C	VAL A	82148.048	2.342	-4.768	1.00	0.00	C
ATOM	1176	O	VAL A	82147.948	3.242	-3.933	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.123	-0.103	-4.283	1.00	0.00	C
ATOM	1178	CG1	VAL A	82148.984	-1.355	-4.359	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.417	-0.014	-2.939	1.00	0.00	C
ATOM	1180	H	VAL A	82149.627	2.063	-2.734	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.569	0.993	-5.418	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.371	-0.164	-5.056	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82148.356	-2.230	-4.279	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.699	-1.350	-3.550	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.507	-1.374	-5.303	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82146.420	-0.420	-3.027	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82147.358	1.020	-2.631	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.971	-0.577	-2.202	1.00	0.00	H
ATOM	1189	N	LYS A	83147.371	2.339	-5.912	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.452	3.416	-6.259	1.00	0.00	C
ATOM	1191	C	LYS A	83145.229	3.405	-5.347	1.00	0.00	C
ATOM	1192	O	LYS A	83144.472	2.436	-5.320	1.00	0.00	O

ATOM	1193	CB	LYS A	83146.014	3.290	-7.719	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.174	3.228	-8.700	1.00	0.00	C
ATOM	1195	CD	LYS A	83146.698	2.909	-10.108	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.699	3.373	-11.153	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.688	2.311	-11.484	1.00	0.00	N
ATOM	1198	H	LYS A	83147.493	1.594	-6.537	1.00	0.00	H
ATOM	1199	HA	LYS A	83146.973	4.352	-6.129	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.428	2.389	-7.831	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.400	4.141	-7.974	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.675	4.185	-8.709	1.00	0.00	H
ATOM	1203	2HG	LYS A	83147.863	2.461	-8.379	1.00	0.00	H
ATOM	1204	1HD	LYS A	83146.565	1.841	-10.198	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.754	3.406	-10.279	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.163	3.644	-12.051	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.223	4.236	-10.772	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.555	2.443	-10.925	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83148.932	2.351	-12.494	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.291	1.373	-11.272	1.00	0.00	H
ATOM	1211	N	LEU A	84145.046	4.491	-4.604	1.00	0.00	N
ATOM	1212	CA	LEU A	84143.917	4.611	-3.690	1.00	0.00	C
ATOM	1213	C	LEU A	84142.593	4.485	-4.439	1.00	0.00	C
ATOM	1214	O	LEU A	84141.616	3.960	-3.906	1.00	0.00	O
ATOM	1215	CB	LEU A	84143.976	5.952	-2.954	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.795	6.237	-2.026	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.027	5.612	-0.659	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.568	7.736	-1.898	1.00	0.00	C
ATOM	1219	H	LEU A	84145.685	5.230	-4.673	1.00	0.00	H
ATOM	1220	HA	LEU A	84143.987	3.812	-2.969	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.883	5.976	-2.368	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.024	6.740	-3.691	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.900	5.798	-2.445	1.00	0.00	H



ATOM	1224	1HD1	LEU A	84142.278	5.971	0.033	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.009	5.886	-0.300	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.959	4.538	-0.737	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.571	8.185	-2.880	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.357	8.169	-1.301	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84141.616	7.917	-1.422	1.00	0.00	H
ATOM	1230	N	LYS A	85142.571	4.970	-5.676	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.367	4.911	-6.496	1.00	0.00	C
ATOM	1232	C	LYS A	85140.977	3.466	-6.792	1.00	0.00	C
ATOM	1233	O	LYS A	85139.805	3.166	-7.025	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.580	5.672	-7.806	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.757	5.163	-8.623	1.00	0.00	C
ATOM	1236	CD	LYS A	85142.949	5.979	-9.891	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.423	6.163	-10.218	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.666	6.202	-11.685	1.00	0.00	N
ATOM	1239	H	LYS A	85143.382	5.377	-6.045	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.567	5.381	-5.944	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.688	5.586	-8.409	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.751	6.714	-7.580	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.654	5.230	-8.025	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.577	4.132	-8.891	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.470	5.466	-10.712	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.496	6.949	-9.756	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.761	7.090	-9.781	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.978	5.341	-9.790	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.502	6.784	-11.894	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85143.843	6.608	-12.174	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.828	5.240	-12.047	1.00	0.00	H
ATOM	1252	N	SER A	86141.963	2.574	-6.781	1.00	0.00	N
ATOM	1253	CA	SER A	86141.717	1.161	-7.048	1.00	0.00	C
ATOM	1254	C	SER A	86141.727	0.352	-5.755	1.00	0.00	C

ATOM 1255 O SER A 86142.103 -0.820 -5.748 1.00 0.00 O  
 ATOM 1256 CB SER A 86142.770 0.614 -8.013 1.00 0.00 C  
 ATOM 1257 OG SER A 86142.492 1.004 -9.347 1.00 0.00 O  
 ATOM 1258 H SER A 86142.876 2.872 -6.589 1.00 0.00 H  
 ATOM 1259 HA SER A 86140.744 1.075 -7.505 1.00 0.00 H  
 ATOM 1260 1HB SER A 86143.742 0.994 -7.737 1.00 0.00 H  
 ATOM 1261 2HB SER A 86142.777 -0.465 -7.960 1.00 0.00 H  
 ATOM 1262 HG SER A 86143.160 0.640 -9.932 1.00 0.00 H  
 ATOM 1263 N CYS A 87141.314 0.986 -4.662 1.00 0.00 N  
 ATOM 1264 CA CYS A 87141.274 0.323 -3.363 1.00 0.00 C  
 ATOM 1265 C CYS A 87139.839 0.184 -2.866 1.00 0.00 C  
 ATOM 1266 O CYS A 87139.033 1.103 -3.005 1.00 0.00 O  
 ATOM 1267 CB CYS A 87142.106 1.104 -2.343 1.00 0.00 C  
 ATOM 1268 SG CYS A 87143.879 0.758 -2.417 1.00 0.00 S  
 ATOM 1269 H CYS A 87141.026 1.920 -4.730 1.00 0.00 H  
 ATOM 1270 HA CYS A 87141.699 -0.663 -3.480 1.00 0.00 H  
 ATOM 1271 1HB CYS A 87141.971 2.161 -2.515 1.00 0.00 H  
 ATOM 1272 2HB CYS A 87141.763 0.860 -1.348 1.00 0.00 H  
 ATOM 1273 HG CYS A 87144.316 1.308 -1.762 1.00 0.00 H  
 ATOM 1274 N ARG A 88139.529 -0.971 -2.288 1.00 0.00 N  
 ATOM 1275 CA ARG A 88138.189 -1.230 -1.771 1.00 0.00 C  
 ATOM 1276 C ARG A 88138.203 -1.338 -0.247 1.00 0.00 C  
 ATOM 1277 O ARG A 88139.164 -1.838 0.338 1.00 0.00 O  
 ATOM 1278 CB ARG A 88137.626 -2.516 -2.378 1.00 0.00 C  
 ATOM 1279 CG ARG A 88136.880 -2.295 -3.684 1.00 0.00 C  
 ATOM 1280 CD ARG A 88135.572 -3.069 -3.717 1.00 0.00 C  
 ATOM 1281 NE ARG A 88134.521 -2.338 -4.422 1.00 0.00 N  
 ATOM 1282 CZ ARG A 88134.443 -2.247 -5.748 1.00 0.00 C  
 ATOM 1283 NH1 ARG A 88135.349 -2.838 -6.516 1.00 0.00 N  
 ATOM 1284 NH2 ARG A 88133.454 -1.563 -6.307 1.00 0.00 N  
 ATOM 1285 H ARG A 88140.215 -1.666 -2.207 1.00 0.00 H

ATOM	1286	HA	ARG A	88137.559	-0.402	-2.056	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.441	-3.200	-2.564	1.00	0.00	H
ATOM	1288	2HB	ARG A	88136.945	-2.966	-1.670	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.667	-1.242	-3.792	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.503	-2.624	-4.502	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.738	-4.011	-4.216	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.251	-3.251	-2.702	1.00	0.00	H
ATOM	1293	HE	ARG A	88133.838	-1.891	-3.880	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.097	-3.355	-6.101	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.283	-2.766	-7.511	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88132.768	-1.116	-5.732	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88133.394	-1.495	-7.303	1.00	0.00	H
ATOM	1298	N	PRO A	89137.132	-0.869	0.417	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.029	-0.917	1.879	1.00	0.00	C
ATOM	1300	C	PRO A	89137.248	-2.322	2.429	1.00	0.00	C
ATOM	1301	O	PRO A	89136.580	-3.271	2.017	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.596	-0.455	2.154	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.224	0.361	0.965	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.941	-0.257	-0.201	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.725	-0.237	2.347	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.952	-1.316	2.260	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.571	0.134	3.059	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.155	0.323	0.812	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.547	1.382	1.104	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.322	-1.007	-0.671	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.225	0.501	-0.915	1.00	0.00	H
ATOM	1312	N	ASP A	90138.186	-2.448	3.360	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.492	-3.738	3.967	1.00	0.00	C
ATOM	1314	C	ASP A	90137.860	-3.845	5.352	1.00	0.00	C
ATOM	1315	O	ASP A	90138.002	-2.945	6.180	1.00	0.00	O
ATOM	1316	CB	ASP A	90140.007	-3.930	4.071	1.00	0.00	C

ATOM	1317	CG	ASP	A	90140.412	-5.387	3.980	1.00	0.00	C
ATOM	1318	OD1	ASP	A	90139.635	-6.185	3.415	1.00	0.00	O
ATOM	1319	OD2	ASP	A	90141.507	-5.731	4.473	1.00	0.00	O
ATOM	1320	H	ASP	A	90138.684	-1.654	3.648	1.00	0.00	H
ATOM	1321	HA	ASP	A	90138.080	-4.510	3.335	1.00	0.00	H
ATOM	1322	1HB	ASP	A	90140.488	-3.391	3.269	1.00	0.00	H
ATOM	1323	2HB	ASP	A	90140.348	-3.539	5.017	1.00	0.00	H
ATOM	1324	N	SER	A	91137.162	-4.947	5.597	1.00	0.00	N
ATOM	1325	CA	SER	A	91136.510	-5.164	6.883	1.00	0.00	C
ATOM	1326	C	SER	A	91137.456	-5.844	7.868	1.00	0.00	C
ATOM	1327	O	SER	A	91137.984	-5.200	8.773	1.00	0.00	O
ATOM	1328	CB	SER	A	91135.238	-5.998	6.703	1.00	0.00	C
ATOM	1329	OG	SER	A	91134.270	-5.672	7.685	1.00	0.00	O
ATOM	1330	H	SER	A	91137.082	-5.630	4.898	1.00	0.00	H
ATOM	1331	HA	SER	A	91136.238	-4.197	7.280	1.00	0.00	H
ATOM	1332	1HB	SER	A	91134.819	-5.806	5.727	1.00	0.00	H
ATOM	1333	2HB	SER	A	91135.480	-7.047	6.789	1.00	0.00	H
ATOM	1334	HG	SER	A	91133.431	-5.484	7.259	1.00	0.00	H
ATOM	1335	N	ARG	A	92137.670	-7.146	7.683	1.00	0.00	N
ATOM	1336	CA	ARG	A	92138.557	-7.915	8.554	1.00	0.00	C
ATOM	1337	C	ARG	A	92138.189	-7.730	10.027	1.00	0.00	C
ATOM	1338	O	ARG	A	92137.454	-8.536	10.597	1.00	0.00	O
ATOM	1339	CB	ARG	A	92140.015	-7.514	8.318	1.00	0.00	C
ATOM	1340	CG	ARG	A	92140.706	-8.337	7.244	1.00	0.00	C
ATOM	1341	CD	ARG	A	92140.193	-7.986	5.858	1.00	0.00	C
ATOM	1342	NE	ARG	A	92139.038	-8.796	5.479	1.00	0.00	N
ATOM	1343	CZ	ARG	A	92139.081	-10.115	5.305	1.00	0.00	C
ATOM	1344	NH1	ARG	A	92140.220	-10.777	5.472	1.00	0.00	N
ATOM	1345	NH2	ARG	A	92137.983	-10.774	4.961	1.00	0.00	N
ATOM	1346	H	ARG	A	92137.224	-7.602	6.940	1.00	0.00	H
ATOM	1347	HA	ARG	A	92138.439	-8.958	8.300	1.00	0.00	H

ATOM	1348	1HB	ARG A	92140.047	-6.475	8.021	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.563	-7.632	9.241	1.00	0.00	H
ATOM	1350	1HG	ARG A	92141.768	-8.144	7.283	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.522	-9.384	7.433	1.00	0.00	H
ATOM	1352	1HD	ARG A	92139.909	-6.945	5.846	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.986	-8.151	5.142	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.184	-8.333	5.350	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92141.051	-10.287	5.731	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.244	-11.769	5.340	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92137.123	-10.281	4.833	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92138.015	-11.765	4.829	1.00	0.00	H
ATOM	1359	N	PHE A	93138.703	-6.665	10.638	1.00	0.00	N
ATOM	1360	CA	PHE A	93138.428	-6.378	12.040	1.00	0.00	C
ATOM	1361	C	PHE A	93137.150	-5.556	12.187	1.00	0.00	C
ATOM	1362	O	PHE A	93137.152	-4.489	12.803	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.607	-5.628	12.663	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.887	-6.415	12.657	1.00	0.00	C
ATOM	1365	CD1	PHE A	93141.605	-6.585	11.483	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.372	-6.984	13.823	1.00	0.00	C
ATOM	1367	CE1	PHE A	93142.783	-7.309	11.474	1.00	0.00	C
ATOM	1368	CE2	PHE A	93142.549	-7.708	13.820	1.00	0.00	C
ATOM	1369	CZ	PHE A	93143.255	-7.871	12.644	1.00	0.00	C
ATOM	1370	H	PHE A	93139.282	-6.057	10.132	1.00	0.00	H
ATOM	1371	HA	PHE A	93138.299	-7.319	12.553	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.776	-4.715	12.110	1.00	0.00	H
ATOM	1373	2HB	PHE A	93139.370	-5.385	13.689	1.00	0.00	H
ATOM	1374	HD1	PHE A	93141.236	-6.145	10.568	1.00	0.00	H
ATOM	1375	HD2	PHE A	93140.821	-6.857	14.743	1.00	0.00	H
ATOM	1376	HE1	PHE A	93143.333	-7.435	10.553	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.917	-8.146	14.736	1.00	0.00	H
ATOM	1378	HZ	PHE A	93144.175	-8.437	12.639	1.00	0.00	H

ATOM 1379 N ALA A 94136.059 -6.059 11.619 1.00 0.00 N  
 ATOM 1380 CA ALA A 94134.776 -5.371 11.687 1.00 0.00 C  
 ATOM 1381 C ALA A 94133.976 -5.822 12.905 1.00 0.00 C  
 ATOM 1382 O ALA A 94133.857 -7.017 13.175 1.00 0.00 O  
 ATOM 1383 CB ALA A 94133.981 -5.610 10.413 1.00 0.00 C  
 ATOM 1384 H ALA A 94136.119 -6.913 11.142 1.00 0.00 H  
 ATOM 1385 HA ALA A 94134.970 -4.312 11.769 1.00 0.00 H  
 ATOM 1386 1HB ALA A 94132.932 -5.695 10.653 1.00 0.00 H  
 ATOM 1387 2HB ALA A 94134.318 -6.523 9.944 1.00 0.00 H  
 ATOM 1388 3HB ALA A 94134.130 -4.781 9.735 1.00 0.00 H  
 ATOM 1389 N SER A 95133.429 -4.857 13.636 1.00 0.00 N  
 ATOM 1390 CA SER A 95132.639 -5.153 14.825 1.00 0.00 C  
 ATOM 1391 C SER A 95131.161 -5.304 14.474 1.00 0.00 C  
 ATOM 1392 O SER A 95130.510 -4.343 14.065 1.00 0.00 O  
 ATOM 1393 CB SER A 95132.817 -4.050 15.870 1.00 0.00 C  
 ATOM 1394 OG SER A 95133.898 -4.340 16.739 1.00 0.00 O  
 ATOM 1395 H SER A 95133.559 -3.922 13.370 1.00 0.00 H  
 ATOM 1396 HA SER A 95132.996 -6.086 15.236 1.00 0.00 H  
 ATOM 1397 1HB SER A 95133.015 -3.113 15.372 1.00 0.00 H  
 ATOM 1398 2HB SER A 95131.914 -3.962 16.455 1.00 0.00 H  
 ATOM 1399 HG SER A 95133.792 -5.224 17.098 1.00 0.00 H  
 ATOM 1400 N LEU A 96130.641 -6.514 14.639 1.00 0.00 N  
 ATOM 1401 CA LEU A 96129.240 -6.792 14.341 1.00 0.00 C  
 ATOM 1402 C LEU A 96128.444 -7.002 15.624 1.00 0.00 C  
 ATOM 1403 O LEU A 96128.799 -7.835 16.458 1.00 0.00 O  
 ATOM 1404 CB LEU A 96129.123 -8.027 13.446 1.00 0.00 C  
 ATOM 1405 CG LEU A 96127.885 -8.062 12.548 1.00 0.00 C  
 ATOM 1406 CD1 LEU A 96128.176 -8.830 11.268 1.00 0.00 C  
 ATOM 1407 CD2 LEU A 96126.708 -8.679 13.288 1.00 0.00 C  
 ATOM 1408 H LEU A 96131.211 -7.239 14.970 1.00 0.00 H  
 ATOM 1409 HA LEU A 96128.838 -5.938 13.816 1.00 0.00 H

ATOM 1410 1HB LEU A 96130.000 -8.075 12.817 1.00 0.00 H  
 ATOM 1411 2HB LEU A 96129.105 -8.903 14.077 1.00 0.00 H  
 ATOM 1412 HG LEU A 96127.617 -7.050 12.277 1.00 0.00 H  
 ATOM 1413 1HD1 LEU A 96128.648 -9.770 11.512 1.00 0.00 H  
 ATOM 1414 2HD1 LEU A 96128.834 -8.248 10.641 1.00 0.00 H  
 ATOM 1415 3HD1 LEU A 96127.251 -9.018 10.744 1.00 0.00 H  
 ATOM 1416 1HD2 LEU A 96126.780 -8.444 14.340 1.00 0.00 H  
 ATOM 1417 2HD2 LEU A 96126.724 -9.751 13.157 1.00 0.00 H  
 ATOM 1418 3HD2 LEU A 96125.786 -8.281 12.893 1.00 0.00 H  
 ATOM 1419 N GLN A 97127.365 -6.241 15.777 1.00 0.00 N  
 ATOM 1420 CA GLN A 97126.519 -6.343 16.961 1.00 0.00 C  
 ATOM 1421 C GLN A 97125.175 -6.983 16.615 1.00 0.00 C  
 ATOM 1422 O GLN A 97124.550 -6.626 15.616 1.00 0.00 O  
 ATOM 1423 CB GLN A 97126.298 -4.958 17.572 1.00 0.00 C  
 ATOM 1424 CG GLN A 97127.318 -4.593 18.638 1.00 0.00 C  
 ATOM 1425 CD GLN A 97128.360 -3.614 18.137 1.00 0.00 C  
 ATOM 1426 OE1 GLN A 97128.385 -2.453 18.544 1.00 0.00 O  
 ATOM 1427 NE2 GLN A 97129.229 -4.079 17.245 1.00 0.00 N  
 ATOM 1428 H GLN A 97127.134 -5.593 15.078 1.00 0.00 H  
 ATOM 1429 HA GLN A 97127.031 -6.965 17.678 1.00 0.00 H  
 ATOM 1430 1HB GLN A 97126.350 -4.219 16.787 1.00 0.00 H  
 ATOM 1431 2HB GLN A 97125.315 -4.928 18.019 1.00 0.00 H  
 ATOM 1432 1HG GLN A 97126.801 -4.148 19.475 1.00 0.00 H  
 ATOM 1433 2HG GLN A 97127.818 -5.494 18.963 1.00 0.00 H  
 ATOM 1434 1HE2 GLN A 97129.148 -5.014 16.965 1.00 0.00 H  
 ATOM 1435 2HE2 GLN A 97129.913 -3.466 16.903 1.00 0.00 H  
 ATOM 1436 N PRO A 98124.707 -7.939 17.439 1.00 0.00 N  
 ATOM 1437 CA PRO A 98123.429 -8.622 17.208 1.00 0.00 C  
 ATOM 1438 C PRO A 98122.272 -7.643 17.039 1.00 0.00 C  
 ATOM 1439 O PRO A 98121.635 -7.597 15.986 1.00 0.00 O  
 ATOM 1440 CB PRO A 98123.236 -9.462 18.473 1.00 0.00 C

ATOM 1441 CG PRO A 98124.612 -9.673 19.002 1.00 0.00 C  
 ATOM 1442 CD PRO A 98125.383 -8.431 18.655 1.00 0.00 C  
 ATOM 1443 HA PRO A 98123.478 -9.270 16.345 1.00 0.00 H  
 ATOM 1444 1HB PRO A 98122.621 -8.920 19.177 1.00 0.00 H  
 ATOM 1445 2HB PRO A 98122.764 -10.398 18.218 1.00 0.00 H  
 ATOM 1446 1HG PRO A 98124.578 -9.806 20.073 1.00 0.00 H  
 ATOM 1447 2HG PRO A 98125.059 -10.535 18.530 1.00 0.00 H  
 ATOM 1448 1HD PRO A 98125.314 -7.707 19.454 1.00 0.00 H  
 ATOM 1449 2HD PRO A 98126.416 -8.672 18.451 1.00 0.00 H  
 ATOM 1450 N SER A 99122.007 -6.862 18.082 1.00 0.00 N  
 ATOM 1451 CA SER A 99120.927 -5.882 18.055 1.00 0.00 C  
 ATOM 1452 C SER A 99119.571 -6.566 17.892 1.00 0.00 C  
 ATOM 1453 O SER A 99118.839 -6.748 18.864 1.00 0.00 O  
 ATOM 1454 CB SER A 99121.148 -4.874 16.924 1.00 0.00 C  
 ATOM 1455 OG SER A 99120.024 -4.024 16.771 1.00 0.00 O  
 ATOM 1456 H SER A 99122.552 -6.947 18.892 1.00 0.00 H  
 ATOM 1457 HA SER A 99120.937 -5.355 18.998 1.00 0.00 H  
 ATOM 1458 1HB SER A 99122.013 -4.268 17.148 1.00 0.00 H  
 ATOM 1459 2HB SER A 99121.311 -5.405 15.998 1.00 0.00 H  
 ATOM 1460 HG SER A 99120.000 -3.392 17.492 1.00 0.00 H  
 ATOM 1461 N GLY A 100119.245 -6.942 16.660 1.00 0.00 N  
 ATOM 1462 CA GLY A 100117.979 -7.601 16.396 1.00 0.00 C  
 ATOM 1463 C GLY A 100117.069 -6.778 15.502 1.00 0.00 C  
 ATOM 1464 O GLY A 100117.227 -6.787 14.281 1.00 0.00 O  
 ATOM 1465 H GLY A 100119.868 -6.771 15.924 1.00 0.00 H  
 ATOM 1466 1HA GLY A 100118.174 -8.549 15.917 1.00 0.00 H  
 ATOM 1467 2HA GLY A 100117.477 -7.782 17.335 1.00 0.00 H  
 ATOM 1468 N PRO A 101116.100 -6.048 16.082 1.00 0.00 N  
 ATOM 1469 CA PRO A 101115.170 -5.218 15.312 1.00 0.00 C  
 ATOM 1470 C PRO A 101115.837 -3.968 14.751 1.00 0.00 C  
 ATOM 1471 O PRO A 101116.518 -3.238 15.473 1.00 0.00 O



ATOM 1472 CB PRO A 101114.103 -4.840 16.339 1.00 0.00 C  
 ATOM 1473 CG PRO A 101114.812 -4.878 17.648 1.00 0.00 C  
 ATOM 1474 CD PRO A 101115.837 -5.974 17.532 1.00 0.00 C  
 ATOM 1475 HA PRO A 101114.716 -5.776 14.505 1.00 0.00 H  
 ATOM 1476 1HB PRO A 101113.723 -3.852 16.122 1.00 0.00 H  
 ATOM 1477 2HB PRO A 101113.296 -5.558 16.306 1.00 0.00 H  
 ATOM 1478 1HG PRO A 101115.295 -3.931 17.831 1.00 0.00 H  
 ATOM 1479 2HG PRO A 101114.111 -5.102 18.439 1.00 0.00 H  
 ATOM 1480 1HD PRO A 101116.733 -5.710 18.074 1.00 0.00 H  
 ATOM 1481 2HD PRO A 101115.434 -6.906 17.898 1.00 0.00 H  
 ATOM 1482 N SER A 102115.637 -3.724 13.460 1.00 0.00 N  
 ATOM 1483 CA SER A 102116.219 -2.560 12.802 1.00 0.00 C  
 ATOM 1484 C SER A 102115.766 -2.472 11.348 1.00 0.00 C  
 ATOM 1485 O SER A 102115.165 -1.480 10.935 1.00 0.00 O  
 ATOM 1486 CB SER A 102117.747 -2.622 12.869 1.00 0.00 C  
 ATOM 1487 OG SER A 102118.251 -3.671 12.060 1.00 0.00 O  
 ATOM 1488 H SER A 102115.085 -4.342 12.937 1.00 0.00 H  
 ATOM 1489 HA SER A 102115.881 -1.679 13.327 1.00 0.00 H  
 ATOM 1490 1HB SER A 102118.159 -1.686 12.520 1.00 0.00 H  
 ATOM 1491 2HB SER A 102118.054 -2.791 13.890 1.00 0.00 H  
 ATOM 1492 HG SER A 102119.076 -3.395 11.655 1.00 0.00 H  
 ATOM 1493 N SER A 103116.056 -3.515 10.579 1.00 0.00 N  
 ATOM 1494 CA SER A 103115.677 -3.556 9.171 1.00 0.00 C  
 ATOM 1495 C SER A 103114.558 -4.565 8.937 1.00 0.00 C  
 ATOM 1496 O SER A 103113.425 -4.192 8.639 1.00 0.00 O  
 ATOM 1497 CB SER A 103116.888 -3.908 8.306 1.00 0.00 C  
 ATOM 1498 OG SER A 103116.525 -4.019 6.941 1.00 0.00 O  
 ATOM 1499 H SER A 103116.537 -4.276 10.966 1.00 0.00 H  
 ATOM 1500 HA SER A 103115.323 -2.573 8.895 1.00 0.00 H  
 ATOM 1501 1HB SER A 103117.637 -3.137 8.404 1.00 0.00 H  
 ATOM 1502 2HB SER A 103117.299 -4.852 8.634 1.00 0.00 H

ATOM 1503 HG SER A 103116.882 -3.273 6.452 1.00 0.00 H  
ATOM 1504 N GLY A 104114.886 -5.846 9.074 1.00 0.00 N  
ATOM 1505 CA GLY A 104113.897 -6.889 8.874 1.00 0.00 C  
ATOM 1506 C GLY A 104113.297 -7.376 10.178 1.00 0.00 C  
ATOM 1507 O GLY A 104113.708 -8.455 10.654 1.00 0.00 O  
ATOM 1508 OXT GLY A 104112.415 -6.679 10.723 1.00 0.00 O  
ATOM 1509 H GLY A 104115.806 -6.084 9.313 1.00 0.00 H  
ATOM 1510 1HA GLY A 104113.106 -6.505 8.247 1.00 0.00 H  
ATOM 1511 2HA GLY A 104114.367 -7.723 8.373 1.00 0.00 H  
TER 1512 GLY A 104  
ENDMDL  
END